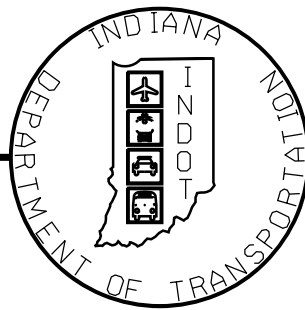


CONTRACT	DESIGNATION
IR-33742	1006075

KIN DES. NUMBERS	
Designation No.	Description
1172100	I-69 NB OVER UNNAMED TRIBUTARY (UNT) OF CLEAR CREEK
1172101	I-69 SB OVER UNNAMED TRIBUTARY (UNT) OF CLEAR CREEK
1172102	I-69 OVER TRIBUTARY OF UNNAMED TRIBUTARY (UNT) OF CLEAR CREEK
1172104	I-69 NB OVER BOLIN LANE
1172105	I-69 SB OVER BOLIN LANE
1172112	S.R. 37 RAMP "SEL-3" OVER I-69
1172113	S.R. 37 RAMP "NWR-3" OVER I-69
1172114	SIGNING AND LIGHTING PLANS

ADJACENT PROJECTS	
Designation No.	Description
0500450	I-69 - HARMONY ROAD TO UNNAMED TRIBUTARY (UNT) OF CLEAR CREEK (STA. 1255+00 TO 1462+50 LINE "A")

INDIANA DEPARTMENT OF TRANSPORTATION

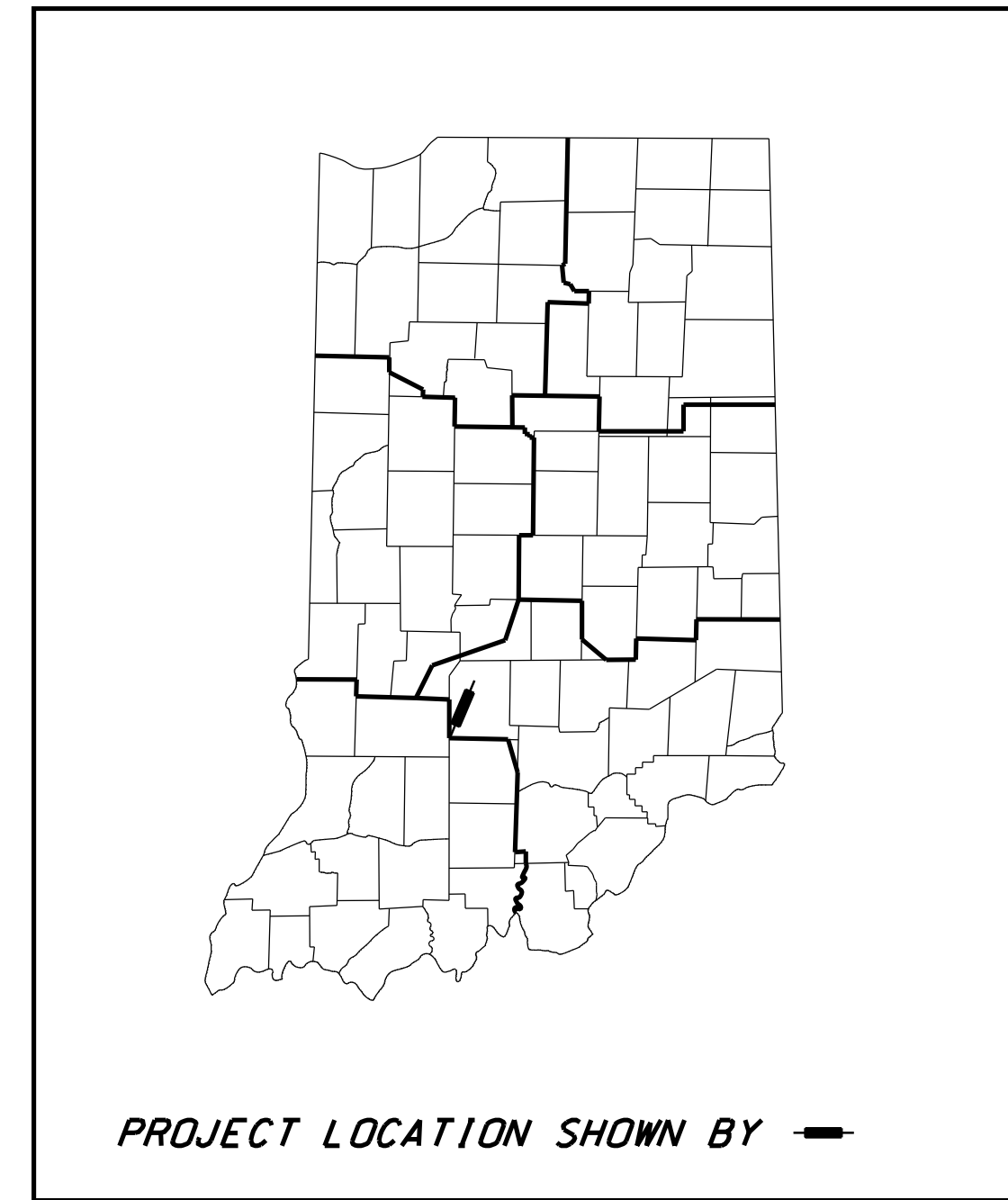


ROAD PLANS

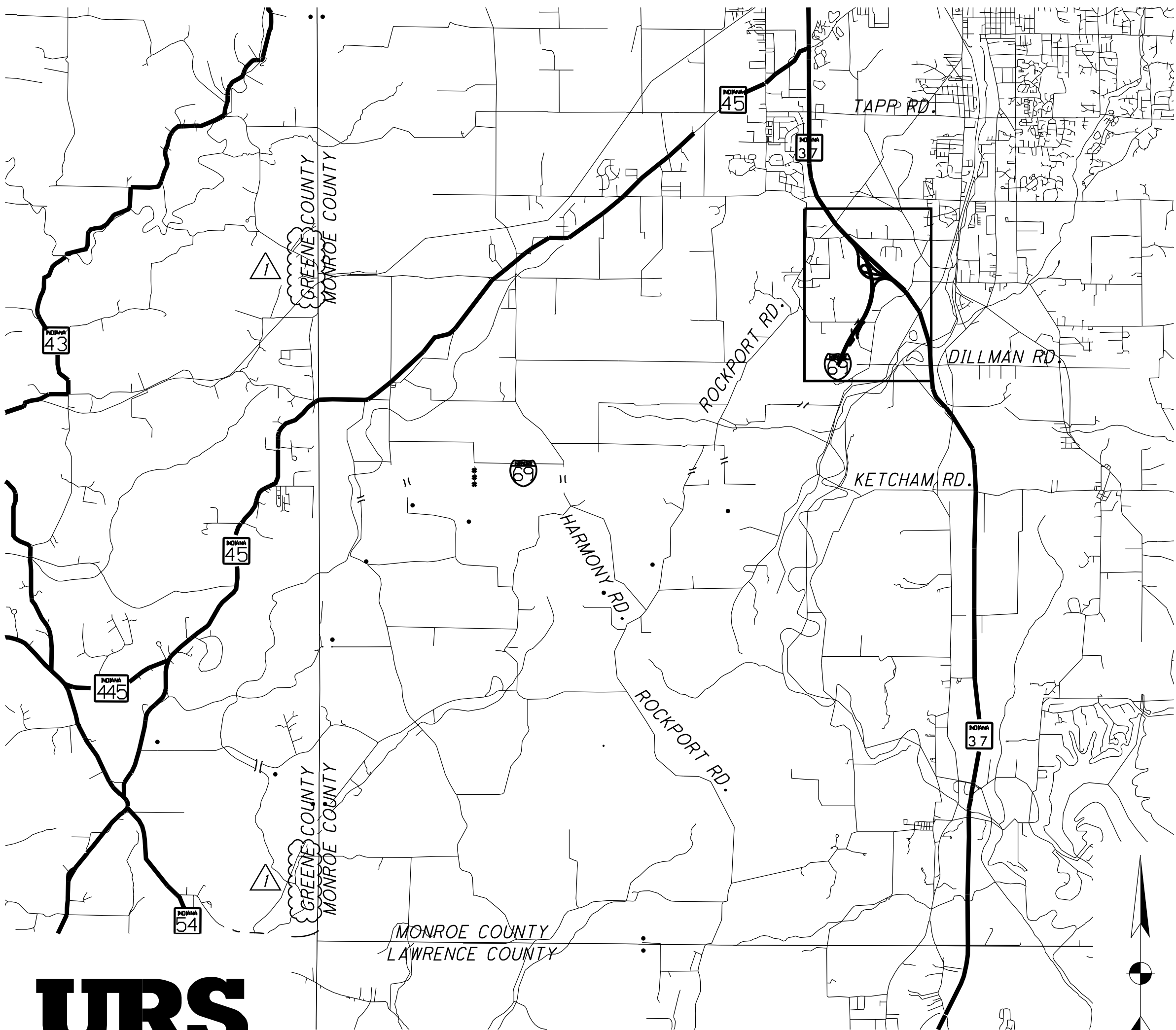
PROJECT NO. 1006075 PE, RW, CONST. Route: I-69 From RP 112+88 To RP 114+63

This Project features New Freeway Construction on I-69 from Unnamed Tributary (UNT) of Clear Creek to S.R. 37. The design includes a new full service interchange with four ramps at I-69 / SR 37. This project is located in Sections 19 and 30, Township 8 North, Range 1 West, Perry Township, Monroe County, Indiana.

Note:
For Traffic & Design Data
See Index Sheet on Page IX-01



PROJECT LOCATION SHOWN BY —



Eq.
Sta. 1554+30.00 "PR-A" (BK) =
Sta. 216+18.47 "SR 37" (AH)

END PROJECT 1006075
STA. 1553+25.00 "PR-A"

New Bridge Construction
S.R. 37 Interchange (Line "SEL-3")
over I-69 N.B./S.B. (Line "PR-A")
Str. No. I-69-53-09717, Des. No. 1172112
New Bridge Construction
S.R. 37 Interchange (Line "NWR-3")
over I-69 N.B./S.B. (Line "PR-A")
Str. No. I-69-53-09718, Des. No. 1172113

New Bridge Construction
I-69 over Bolin Lane
N.B. Str. No. 169-53-9710, Des. No. 1172104
S.B. Str. No. 169-53-9711, Des. No. 1172105

Begin Construction
Sta. 18+00.00 "Bolin Lane"

New Bridge Construction
I-69 over Tributary of Unnamed Tributary
(UNT) of Clear Creek
Str. No. 169-53-9709, Des. No. 1172102

New Bridge Construction
I-69 over Unnamed Tributary (UNT) of Clear Creek
N.B. Str. No. 169-53-9707, Des. No. 1172100
S.B. Str. No. 169-53-9708, Des. No. 1172101

BEGIN PROJECT 1006075
END PROJECT 0500450
STA. 1462+50.00 "A"

Begin Construction
Sta. 501+00.00 "NER-3"
Sta. 1597+85.14 "NWR-3"

Roadway Length (I-69): 1.629 mi
Total Length (I-69): 1.719 mi
Max. Grade : 3.240%
Begin Project Latitude: 39° 05' 34" N
Begin Project Longitude: 86° 34' 01" W
End Project Latitude: 39° 06' 55" N
End Project Longitude: 86° 33' 53" W
Hydrologic Unit Number: 05120208090020

INDIANA
37

End Construction
Sta. 22+00.00 "Bolin Lane"
End Construction
Sta. 13+49.59 "PR-Glenview Drive"

Begin Construction
Sta. 2+00.00 "Glenview Drive"

URS

One Indiana Square, Suite 2100
Indianapolis, IN 46204
317-532-5400

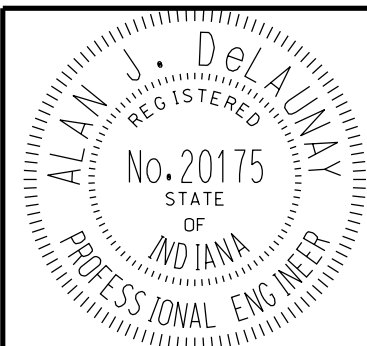
CDM
Smith

429 North Pennsylvania Street, Suite 409
Indianapolis, IN 46204
Tel: (317) 829-9600

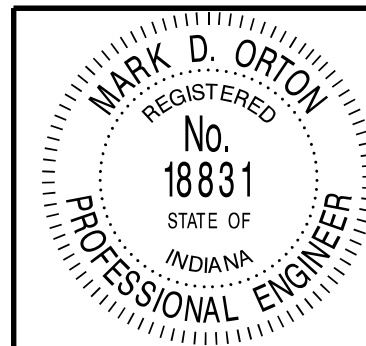
Scale: NTS
Location Map
Monroe County

FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION
APPROVED: _____
DATE _____

DIVISION ADMINISTRATOR



PLANS
PREPARED BY: URS Corporation 317-532-5400
PHONE NUMBER
CERTIFIED BY: Glen J. Delavina 9/6/2012
DATE
APPROVED
FOR LETTING: _____
DATE
CHIEF, DIVISION OF DESIGN




PLANS
PREPARED BY: CDM Smith 317-829-9600
PHONE NUMBER
CERTIFIED BY: _____ 9/6/2012
DATE

BRIDGE FILE	
N/A	
DESIGNATION	
1006075	
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	75-01
CONTRACT	PROJECT
IR-33742	1006075

DATE: 10/3/2012
TIME: 10:00:28 AM
LOCATION: R:\03141 - I-69 Section 4\MicroStation\Sheet Files\5562750PRD_1X01_A2.dgn

Abbreviations	
R/W	Right-of-Way
L.A. R/W	Limited Access Right-of-Way
A.C.L.	Access Control Line
C.L.T.F.	Chain Link Type Fence
F.F.T.F.	Farm Field Type Fence
APP. P.L.	Apparent Property Line
APP. EXIST. R/W	Apparent Existing Right-of-Way
B	Beginning L.A. R/W
E	Ending L.A. R/W
N.E.P.L.	No Evidence of Property Line
s.e. / e	Superelevation
P.G.	Profile Grade
N.B.	Northbound
S.B.	Southbound

Utilities		
Smithville Communications, Inc. 1600 W. Temperence St. Ellettsville, IN 47429 Mr. Perry Gater OSP Engineer pgater@smithville.net (812) 935-2383	Southern Monroe Water Corp. (Midwestern Engineers Inc.) Mr. Michael Mathias Sr. Project Engineer mmathias@midwesterneng.com (812) 295-2800 802 W. Broadway St. Loogootee, IN 47553 Send copy to: Mr. Dennis Miller Superintendent (812) 322-4745 5790 S. Fairfax Rd. Bloomington, IN 47401	Vectren Energy Delivery Mr. Marty Frederick Public Improvement Project Coordinator mfrederick@vectren.com (812) 491-4765 1 North Main Street Evansville, IN 47702 Mr. Doug Anderson danderson@vectren.com (812) 330-4009 205 South Madison Bloomington, IN 47408
Duke Energy Mr. Tim Emmel timothy.emmel@duke-energy.com (812) 886-3276 1000 E. Main St. Plainfield, IN 46168 Send copy to: Mr. Tim Umbaugh tim.umbaugh@duke-energy.com (317) 753-8177 1619 W. Deffenbaugh St. Kokomo, IN 46902	Comcast Central Indiana 2450 South Henderson St. Bloomington, IN 47401 Mr. Scott Templeton scott.templeton@cable.comcast.com (812) 822-3262	

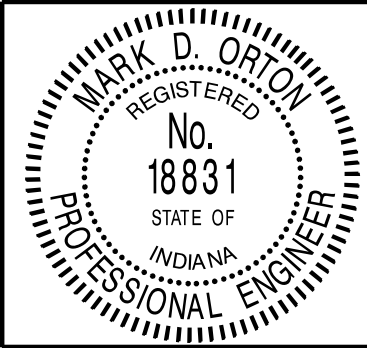
Revisions			
Rev. No.	Date	Sheet Number	Description
	09/25/12	Plan Sheets: 1 - 48, 51 - 87, 93 - 96, 98 - 135, 137 - 139-3, 141 - 145, 149 - 173 Cross Section Sheets: 1 - 142, 145 - 164	Miscellaneous revisions

Roadway	Traffic Data						Design Data					
		A.A.D.T. (2014)	A.A.D.T. (2034)	D.H.V. (2034)	Trucks		Design Speed	Design Criteria	Functional Classification	Rural / Urban	Terrain	Access Control
					% A.D.T.	% D.H.V.	M.P.H.					
I-69	Line "A" and "PR-A"	25,635	30,762	2,437	21.00%	13.79%	70	New Construction, Freeway	Rural Freeway	Rural	Rolling	Full Control
I-69	Line "PR-A"	47,938	57,525	4,313	16.30%	11.31%	70	New Construction, Freeway	Urban Freeway	Urban	Rolling	Full Control
I-69/S.R. 37 Ramp	Line "NER-3"	12,234	14,681	1,359	10.67%	6.05%	45	New Construction (4R), Ramp	Ramp	Rural	Rolling	Full Control
I-69/S.R. 37 Ramp	Line "NWR-3"	12,105	14,526	1,270	10.10%	6.31%	50/45	New Construction (4R), Ramp	Ramp	Rural	Rolling	Full Control
I-69/S.R. 37 Ramp	Line "SER-3"	613	735	58	4.84%	3.64%	50/35	New Construction (4R), Ramp	Ramp	Rural	Rolling	Full Control
I-69/S.R. 37 Ramp	Line "SEL-3"	409	491	50	4.46%	4.17%	45/30	New Construction (4R), Ramp	Ramp	Rural	Rolling	Full Control
Bolin Lane	Line "Bolin Lane"	<100	24	-	-	-	35	3R, Non-Freeway	Local	Rural	Rolling	None
Glenview Drive	Line "Glenview Drive", "PR-Glenview Drive", and "PR-2-Glenview Drive"	<100	50	-	-	-	30	3R, Non-Freeway	Local	Rural	Rolling	None

General Notes	
**	All Earth Shoulders, Median Areas, Cut and Fill Slopes shall be Plain or Mulch Seeded except where Sodding is specified.
**	All existing Storm Drainage Pipes, Inlets, and Manholes shall be removed unless otherwise noted.
**	All Limited Access Right-of-Way (L.A. R/W) is to be fenced with Farm Field Type Fence (F.F.T.F.) or Chain Link Type Fence (C.L.T.F.) and shall be placed in lieu of Right-of-Way Markers, unless otherwise noted.
**	All existing Right-of-Way Fence shall not be disturbed unless otherwise noted.

** Required General Notes

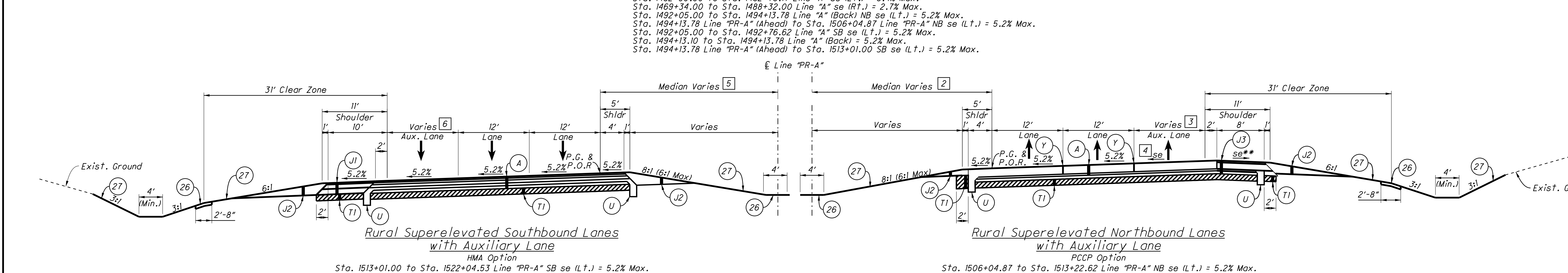
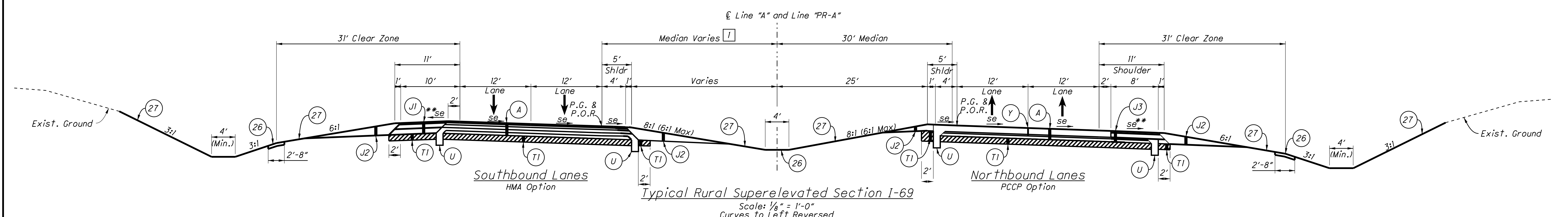
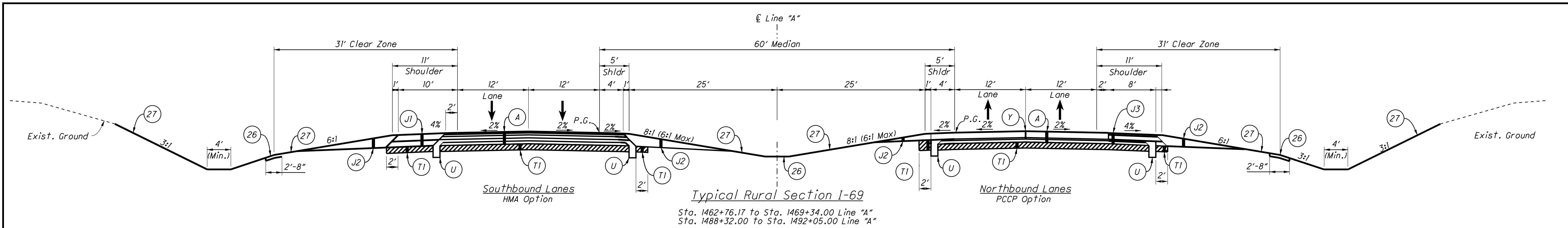
Drawing Index	
Sheet	Description
1	Title Sheet
2	Index, General Notes, & Utility Information
3 - 15	Typical Sections
15-1	Typical Sections
16	Typical Sections
17 -20	Plat No. 1
21	Baseline Control Points and Benchmark Data
22 - 48	Maintenance of Traffic
49 - 64	Plan and Profiles - I-69
65 - 83	Plan and Profiles - Ramps
84 - 85	Plan and Profiles - Bolin Lane
86 - 87	Plan and Profiles - Glenview Drive
88 - 92	Superelevation Details
93 - 98	Construction Details
99 - 103	Miscellaneous Details
104	Drainage Ditch Berm Details
105 - 108	Interchange Geometric Layout
109 - 112	Interchange R/W Details
113 - 116	Interchange Construction Details
116-1	Interchange Construction Details
116-2	Interchange Construction Details
117 - 120	Interchange Drainage Details
121 - 126	Interchange Grading Details
127 - 131	Gore Details
131-1	Gore Detail
132 - 135	Str. No. 134 Detail Sheets
136	Soil Borings - Str. 134
137 - 138	Str. No. 938 Detail Sheets
139	Soil Borings - Str. 938
139-1	Str. No. 981 Detail Sheets
139-2	Str. No. 981 Detail Sheets
139-3	Signal Modification Detail
140 - 146	Pavement Marking Details
147 - 148	Pavement Marking Tables
149	Korst Detail Sheet
150	Korst Table
151	R/W, Monument & Fence Tables
152	Paved Side Ditch, Riprap and Sodding Table
153 - 154	Approach Table
155 - 169	Underdrain Tables
170	Guardrail Table
171 - 172	Structure Data Table
173	Pipe Material Table
	Cross Sections
1-69 - 1-69	Line "A" and Line "PR-A" - Part 1 of 3
75 - 142	Ramps - Line "NER-3", "NWR-3", "SEL-3", and "SER-3" - Part 2 of 3
143 - 144	DELETED SHEETS
145 - 156-1	Ramps - Line "NER-3", "NWR-3", "SEL-3", and "SER-3" - Part 2 of 3
157 - 164	Bolin Lane - Line "Bolin Lane" and Glenview Drive - Line "PR-2-Glenview Drive" - Part 3 of 3



RECOMMENDED FOR APPROVAL	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

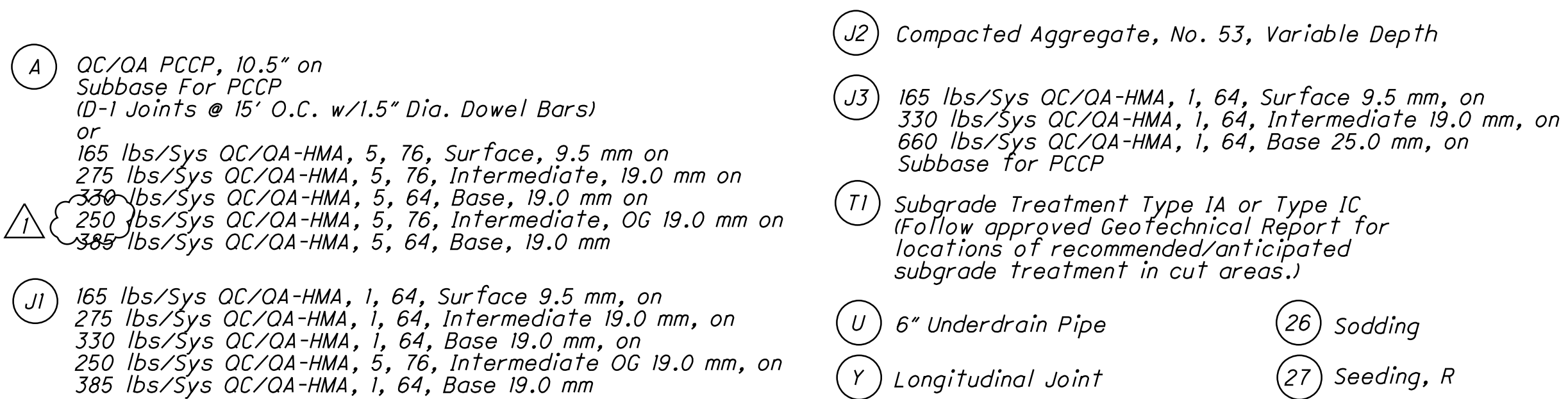
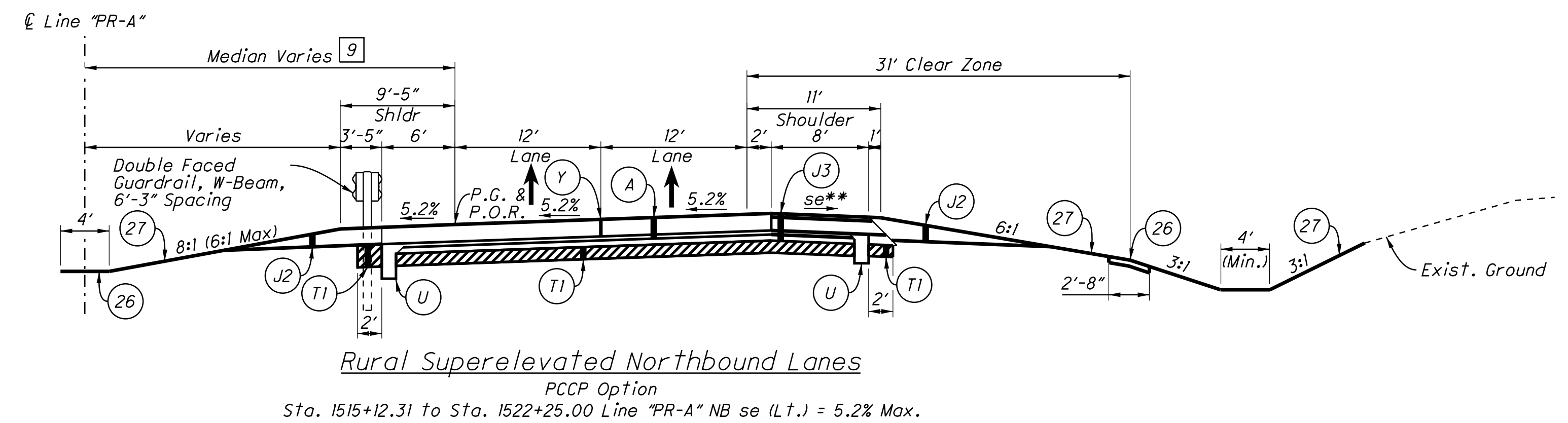
INDIANA DEPARTMENT OF TRANSPORTATION	
INDEX & GENERAL NOTES	

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL CONTRACT IR-33742	PAGE 1X-01 PROJECT 1006075



- Paving Exceptions**
Sta. 1464+18.05 to Sta. 1467+81.39 Line "A" NB
Sta. 1464+50.61 to Sta. 1468+13.95 Line "A" SB
Sta. 1493+34.75 to Sta. 1494+13.78 "A" (Back) NB =
Sta. 1494+13.78 Line "PR-A" (Ahead) to Sta. 1494+71.24 NB
Sta. 1492+76.62 to Sta. 1494+13.10 Line "A" SB
- ** For Paved Shoulder Width Greater Than 4':**
The Shoulder Slope Shall Be 4% If The Pavement Is At Normal Slope Of 2% Or If The Superelevation Rate Is 4% Or Less.
The Shoulder Slope Shall Be 2% Down From The Traveled Way If The Superelevation Rate Is Greater Than 4% But Less Than Or Equal To 6%.
The Shoulder Slope Shall Be 1% Up From The Traveled Way If The Superelevation Rate Is Greater Than 6%.
- Legend:**
A OC/OA PCCP, 10.5" on Subbase For PCCP (D-I Joints @ 15' O.C. w/1.5" Dia. Dowel Bars) or 165 lbs/Sys OC/OA-HMA, 5, 76, Surface 9.5 mm on 275 lbs/Sys OC/OA-HMA, 5, 76, Intermediate 19.0 mm on 330 lbs/Sys OC/OA-HMA, 5, 64, Base 19.0 mm on 250 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, OG 19.0 mm on 385 lbs/Sys OC/OA-HMA, 5, 64, Base, 19.0 mm
J1 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 275 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on 330 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm, on 250 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, OG 19.0 mm, on 385 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm
J2 Compacted Aggregate, No. 53, Variable Depth
J3 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on 330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on 660 lbs/Sys OC/OA-HMA, 1, 64, Base 25.0 mm, on Subbase For PCCP
T1 Subgrade Treatment Type 1A or Type 1C (Follow approved Geotechnical Report for locations of recommended/anticipated subgrade treatment in cut areas.)
U 6" Underdrain Pipe
Y Longitudinal Joint
26 Sodding
27 Seeding, R
- Notes:**
1 Sta. 1469+34.00 Line "A" to Sta. 1511+92.50 "PR-A" = 30'
Sta. 1511+92.50 to Sta. 1513+01.00 "PR-A" varies from 30' to 28'-5"
2 Sta. 1506+04.87 to Sta. 1511+92.50 "PR-A" = 30'
Sta. 1511+92.50 to Sta. 1513+22.62 "PR-A" varies from 30' to 28'-2"
3 Sta. 1506+04.87 to Sta. 1507+04.87 "PR-A" varies from 0' to 12'
Sta. 1507+04.87 to Sta. 1509+99.31 "PR-A" = 12'
Sta. 1509+99.31 to Sta. 1513+22.62 varies from 12' to 20'
4 See Superelevation Diagram for se of Auxiliary Lane
5 Sta. 1513+01.00 to Sta. 1521+96.28 "PR-A" varies from 28'-5" to 15'-8"
6 Sta. 1513+01.00 to Sta. 1516+66.11 "PR-A" varies from 0' to 12'
Sta. 1516+66.11 to Sta. 1519+70.60 "PR-A" = 12'
Sta. 1519+70.60 to Sta. 1522+04.53 "PR-A" varies from 12' to 18'
- Note:** All Shoulders On I-69 Shall Have Milled Shoulder Corrugations from Sta. 1462+50.00 "A" to 1494+13.78 "A" (Back) & Sta. 1494+13.78 "PR-A" (Ahead) to 1522+25.00 "PR-A", Per INDOT STD. DWG. E606-SHCG-01, E606-SHCG-02, and E606-SHCG-03

	RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE 9/6/10	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1/8" = 1'-0" VERTICAL SCALE 1/4" = 1'-0"	BRIDGE FILE N/A DESIGNATION 1006075	
	DESIGNED: MDO CHECKED: HCF	DRAWN: KCH CHECKED: MDO	TYPICAL SECTIONS I-69 - LINE "A" & LINE "PR-A"		SURVEY BOOK ELECTRONIC / AERIAL CONTRACT IR-33742	PAGE 7Y-01 PROJECT 1006075
			SHEETS 3 of 173			



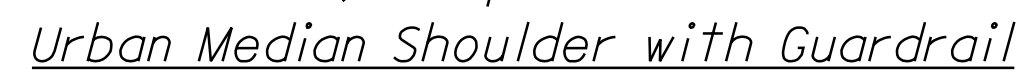
7	<i>Sta. 1513+22.62 to Sta. 1515+12.31 "PR-A" varies from 28'-2" to 25'-5"</i>
8	<i>See Gore Details for more information.</i>
9	<i>Sta. 1515+12.31 to Sta. 1522+25.00 "PR-A" varies from 25'-5" to 15'-3"</i>
10	<i>Sta. 1521+96.28 to Sta. 1522+25.00 "PR-A" varies from 15'-8" to 15'-3"</i>

Note: All Shoulders On I-69 Shall Have Milled Shoulder Corrugations from Sta. 1462+50.00 "A" to 1522+25.00 "PR-A", Per INDOT STD. DWG. E606-SHCG-01, E606-SHCG-02, and E606-SHCG-03

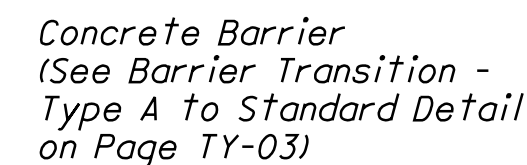
HORIZONTAL SCALE		BRIDGE FILE	
$\frac{1}{8}'' = 1'-0''$		N/A	
VERTICAL SCALE		DESIGNATION	
$\frac{1}{8}'' = 1'-0''$		1006075	
SURVEY BOOK		PAGE	SHEETS
ELECTRONIC / AERIAL		TY-09	4 of 173
CONTRACT		PROJECT	
IR-33742		1006075	



Not to Scale
PCCP Option
Sta. 1522+44.84 to Sta. 1522+94.34 Line "PR-A"
Sta. 1525+90.56 to Sta. 1526+26.56 Line "PR-A"

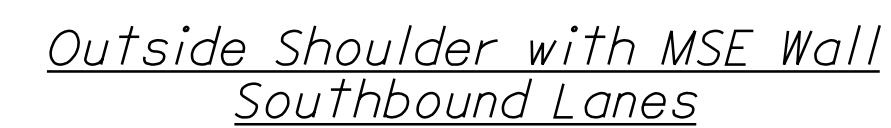


Not to Scale
PCCP Option
Sta. 1522+25.00 to Sta. 1522+44.84 Line "PR-A"

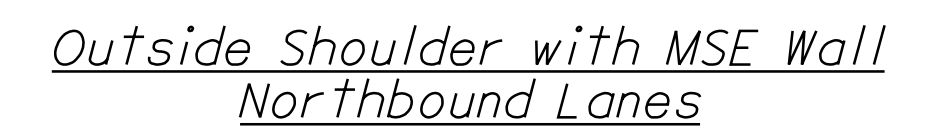


Outside Shoulder with Barrier Detail

Not to Scale
HMA Option
Sta. 1530+52.77 to Sta. 1534+33.63 Line "PR-A"



Not to Scale
PCCP Option

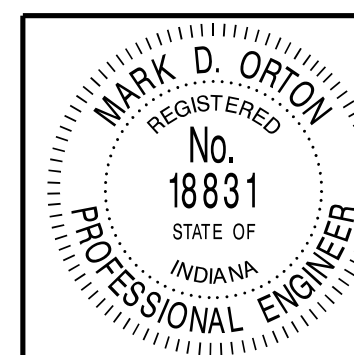


Not to Scale
PCCP Option

- (J5) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on
275 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on
385 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm, on
300 lbs/Sys OC/OA-HMA, 5, 76, Intermediate 19.0 mm, on
385 lbs/Sys OC/OA-HMA, 1, 64, Base 19.0 mm, on
- (J6) Compacted Aggregate, No. 53, 9"
- (T1) Subgrade Treatment Type IA or Type IC
(Follow approved Geotechnical Report for
locations of recommended/anticipated
subgrade treatment in cut areas.)
- (U) 6" Underdrain Pipe
- (26) Sodding
- (Y) Longitudinal Joint
- (27) Seeding, R

**** For Paved Shoulder Width Greater Than 4':**
 The Shoulder Slope Shall Be 4% If The Pavement Is At Normal Slope
 Of 2% Or If The Superlevation Rate Is 4% Or Less.
 The Shoulder Slope Shall Be 2% Down From The Traveled Way If The
 Superlevation Rate Is Greater Than 4% But Less Than Or Equal To 6%.
 The Shoulder Slope Shall Be 1% Up From The Traveled Way If The
 Superlevation Rate Is Greater Than 6%.

- 8 See Gore Details for more information.
 - 11 See Shoulder Adjacent to MSE Wall Details on Sheet 16
 - 13 See Urban Median Shoulder Details for more information.
 - 14 Double Faced Guardrail located only from Sta. 1522+44.84 to Sta. 1522+94.34 "PR-A"



RECOMMENDED
FOR APPROVAL M. D. O. K. 9/6/20
DESIGN ENGINEER DATE

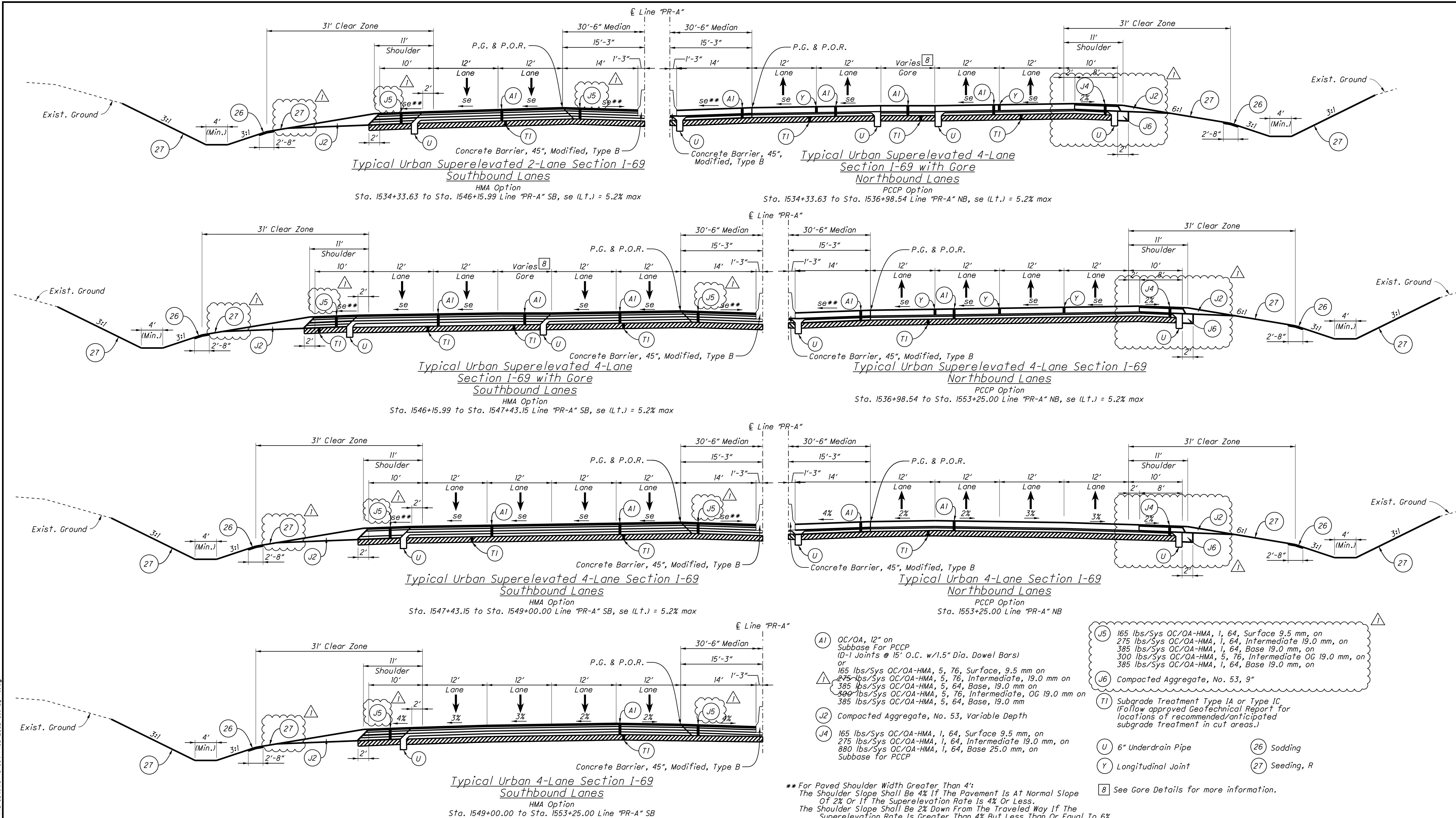
DESIGNED: <u>MDO</u>	DRAWN: <u>KEH</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

INDIANA DEPARTMENT OF TRANSPORTATION

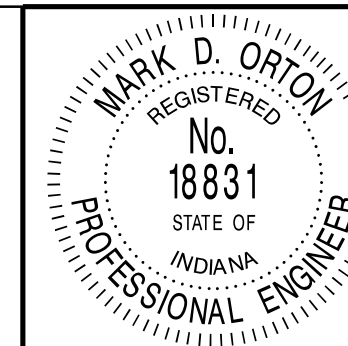
TYPICAL SECTIONS
I-69 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE	
AS NOTED	N/A	
VERTICAL SCALE	DESIGNATION	
AS NOTED	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	TY-02	5 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

DATE: 10/1/2012
TIME: 10:41:04 AM
LOCATION: R:\035141 - I-69 Section 4\MicroStation\Sheet Files\B5627500RD_TY10.dgn



09/25/12 - Miscellaneous revisions

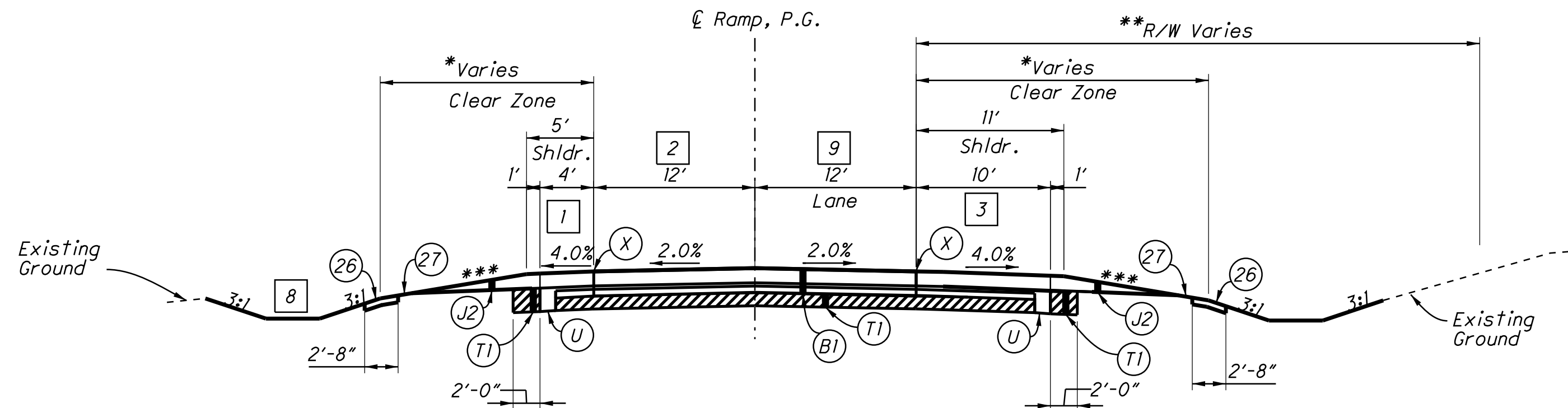


RECOMMENDED FOR APPROVAL
DESIGNED: MDO
CHECKED: HCF
DRAWN: K&H
CHECKED: MDO
DATE: 9/6/10

INDIANA
DEPARTMENT OF TRANSPORTATION

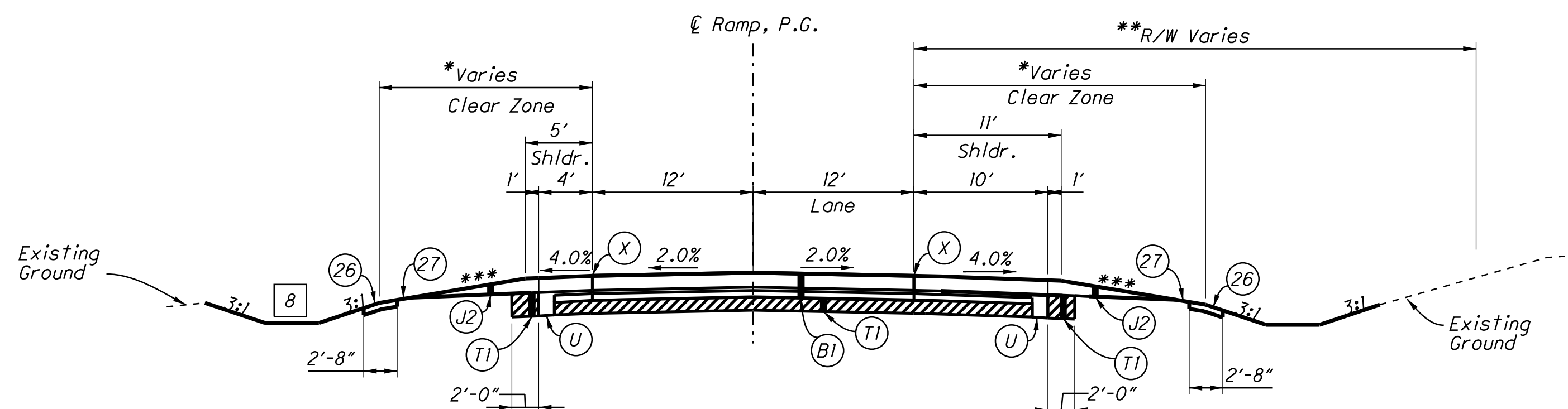
TYPICAL SECTIONS
I-69 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
AS NOTED	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	TY-10
CONTRACT	PROJECT
IR-33742	1006075



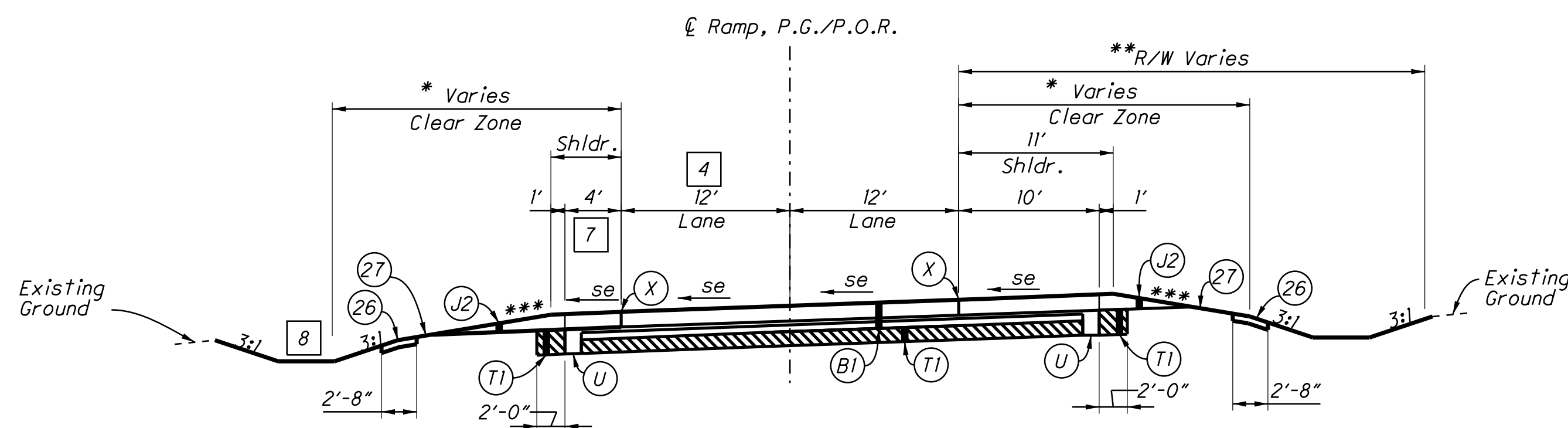
Typical Section - Ramp "NER-3"

Sta. 500+00.00 To Sta. 501+00.00 Line "NER-3"



Typical Section - Ramp "NER-3"

Sta. 501+00.00 To Sta. 506+89.00 Line "NER-3"
Sta. 515+28.81 To Sta. 515+56.00 Line "NER-3"



Typical Superelevated Section - Ramp "NER-3"

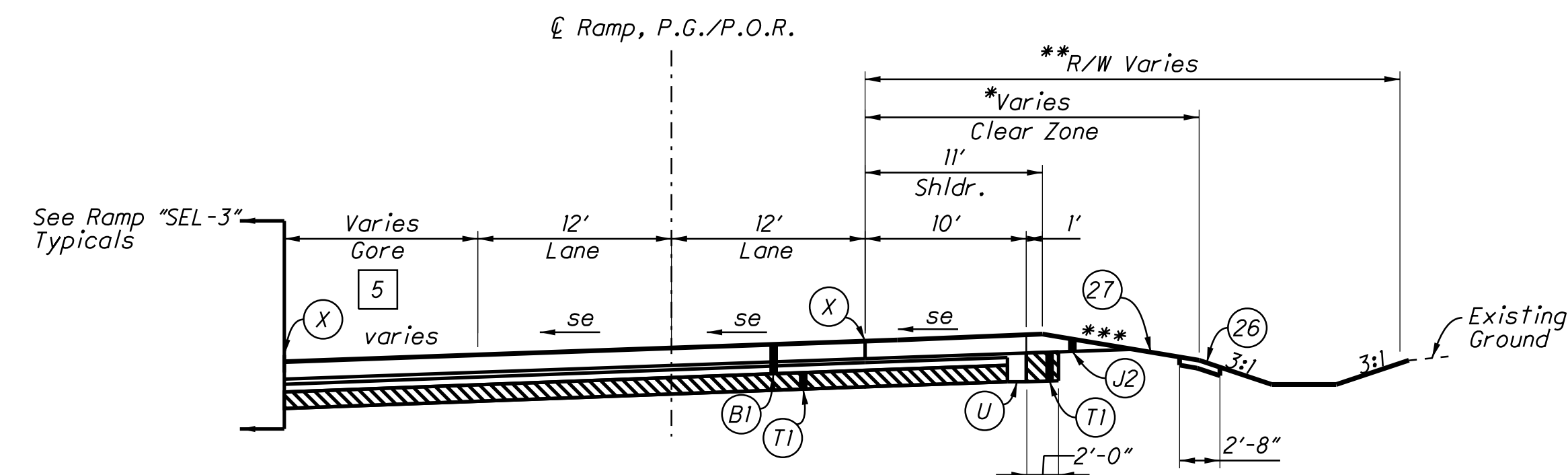
(Reverse As Needed)

Sta. 506+89.00 To Sta. 513+90.65 Line "NER-3"
Sta. 515+56.00 To Sta. 530+92.00 Line "NER-3"

* See Mainline Typical Section.

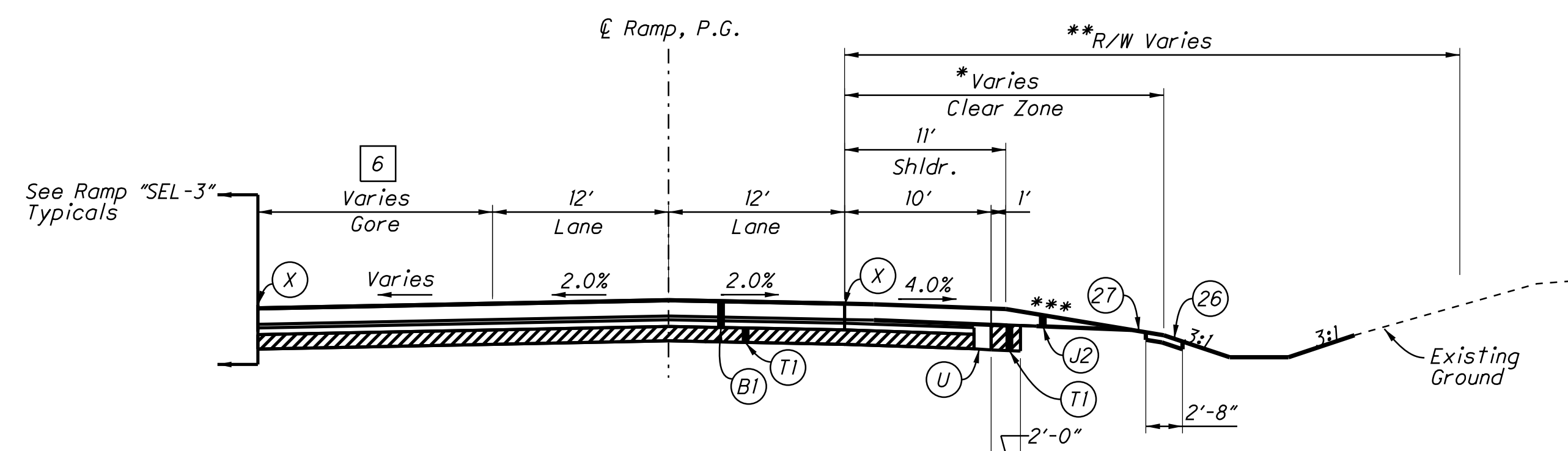
Typical Superelevated Section - Ramp "NER-3"

Sta. 530+92.00 To Sta. 533+08.07 Line "NER-3"



Typical Superelevated Section - Ramp "NER-3"

Sta. 513+91.00 To Sta. 514+86.00 Line "NER-3"



Typical Section - Ramp "NER-3"

Sta. 514+86.00 To Sta. 515+28.81 Line "NER-3"

1 Varies 7' To 4'
Sta. 500+00.00 To Sta. 501+00.00 "NER-3"

2 Varies 12.2' To 12'
Sta. 500+00.00 To 501+00.00 "NER-3"

3 Varies 9.5' To 10'
Sta. 500+00.00 To Sta. 501+00.00 "NER-3"

4 Varies 12' To 32'
Sta. 507+90.18 To Sta. 513+90.65 "NER-3"

5 Varies 4' To 13'
Sta. 513+90.65 To Sta. 514+86.00 "NER-3"

6 Varies 13' To 18'
Sta. 514+86.00 To Sta. 515+28.81 "NER-3"

7 Guardrail with 6' Applies
Sta. 515+29.00 To Sta. 517+03.69 "NER-3"

8 6-l Special V-Ditch Applies
Sta. 515+37.00 To Sta. 517+08.00 "NER-3"

9 Varies 12.2' To 12'
Sta. 500+00.00 To Sta. 501+00.00 "NER-3"

* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)

** See Cross Sections For Specific Dimensions

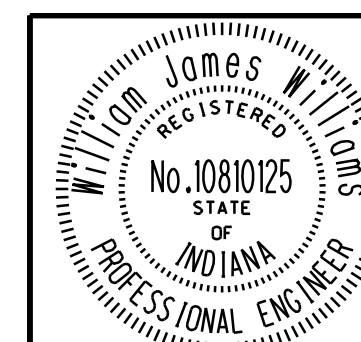
*** Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

(B1) OC/OA, 10.5" on
Subbase For PCCP
10-1 Joints @ 16' O.C. w/ 1.5" Dia. Dowel Bars)
OR
165 lb/Sys OC/OA-HMA, 4, 76, Surface 9.5 mm, on
275 lb/Sys OC/OA-HMA, 4, 76, Intermediate 19.0 mm, on
330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm, on
250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on
330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm

(J2) Compacted Aggregate, No. 53, Variable Depth
(T1) Subgrade Treatment, Type 1A
(U) 6" Underdrain Pipe

(X) Construction Joint

(26) Sodding
(27) Seeding, R



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

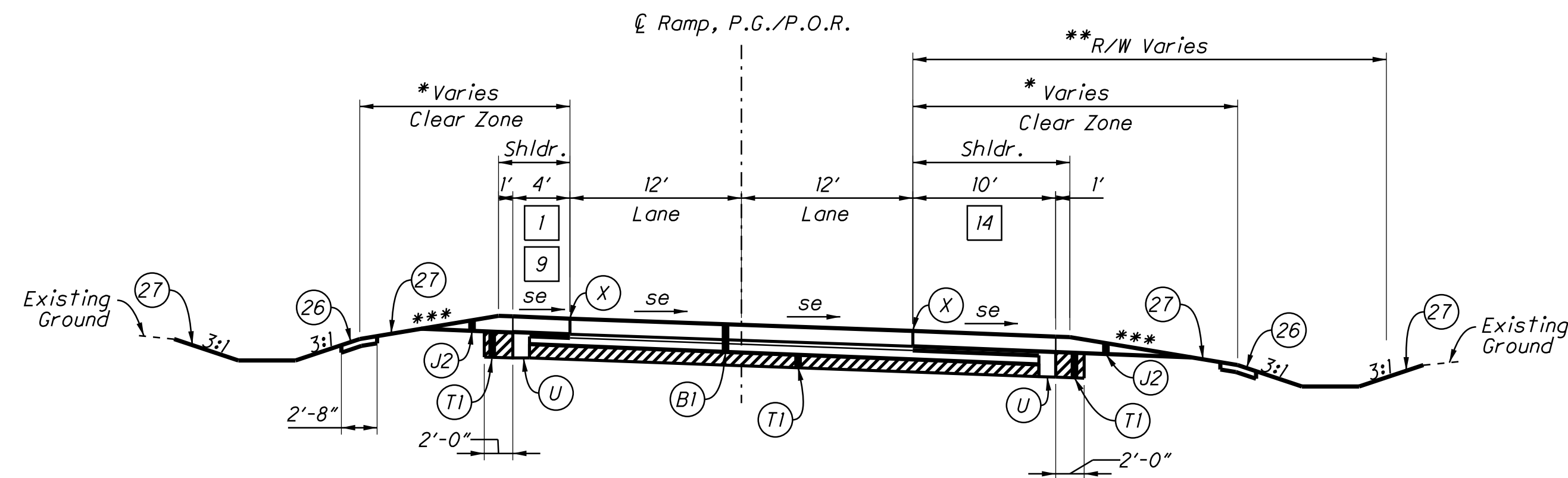
INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS RAMPS "NER-3"	

HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 7 of 173
CONTRACT IR-33742	PROJECT 1006075

* See Mainline Typical Section.

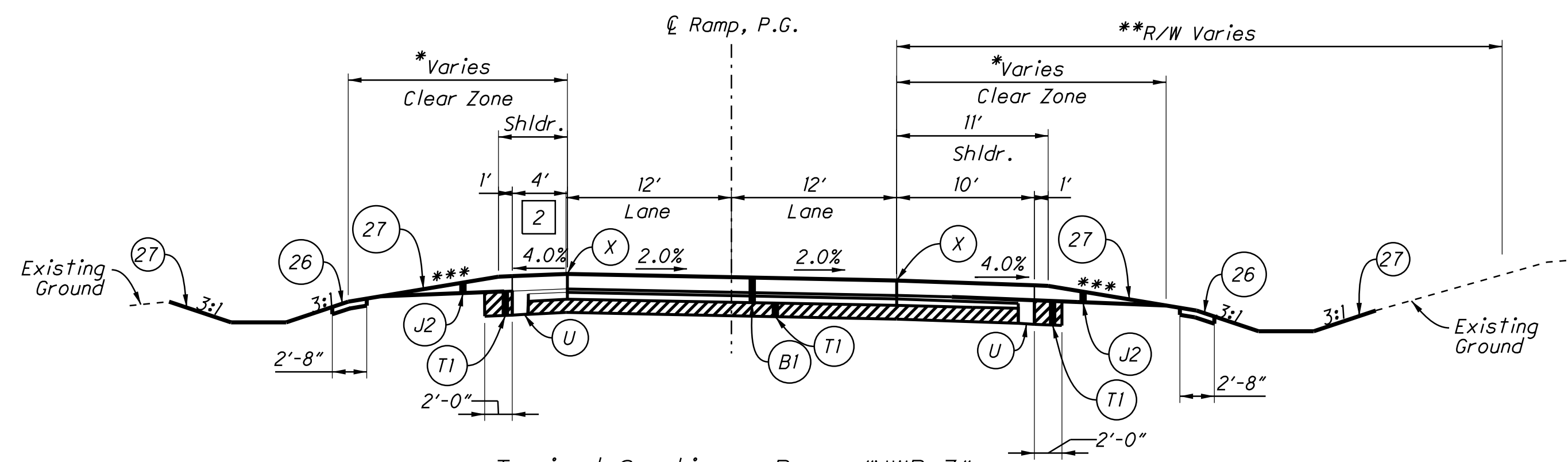
Typical Superelevated Section - Ramp "NWR-3"

Sta. 1548+30.51 to Sta. 1550+41.00 Line "NWR-3"



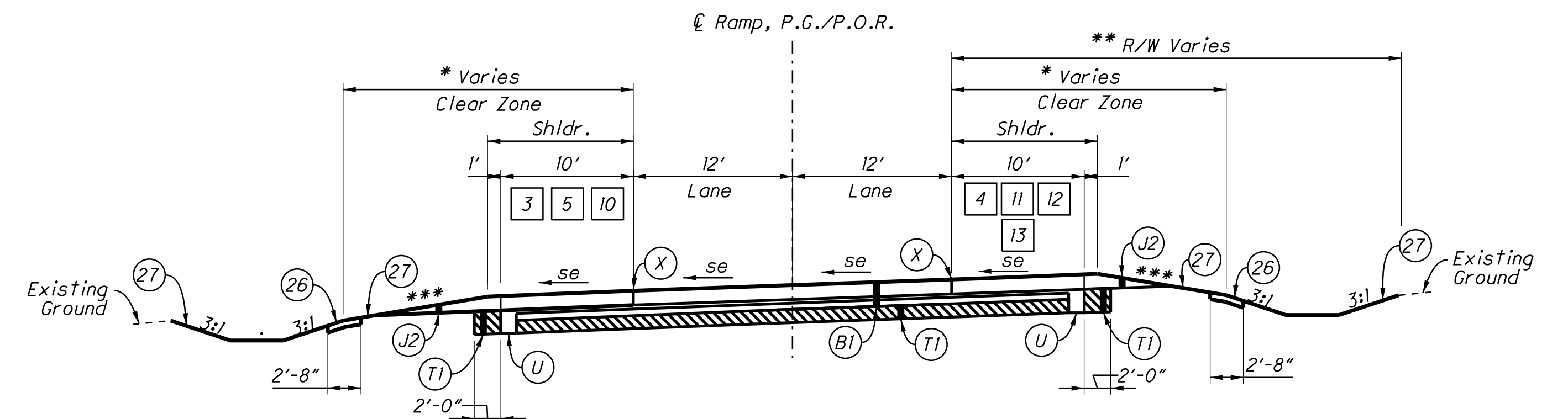
Typical Superelevated Section - Ramp "NWR-3"

Sta. 1550+41.00 to Sta. 1559+32.00 Line "NWR-3"
Sta. 1579+88.74 to Sta. 1582+81.32 Line "NWR-3"



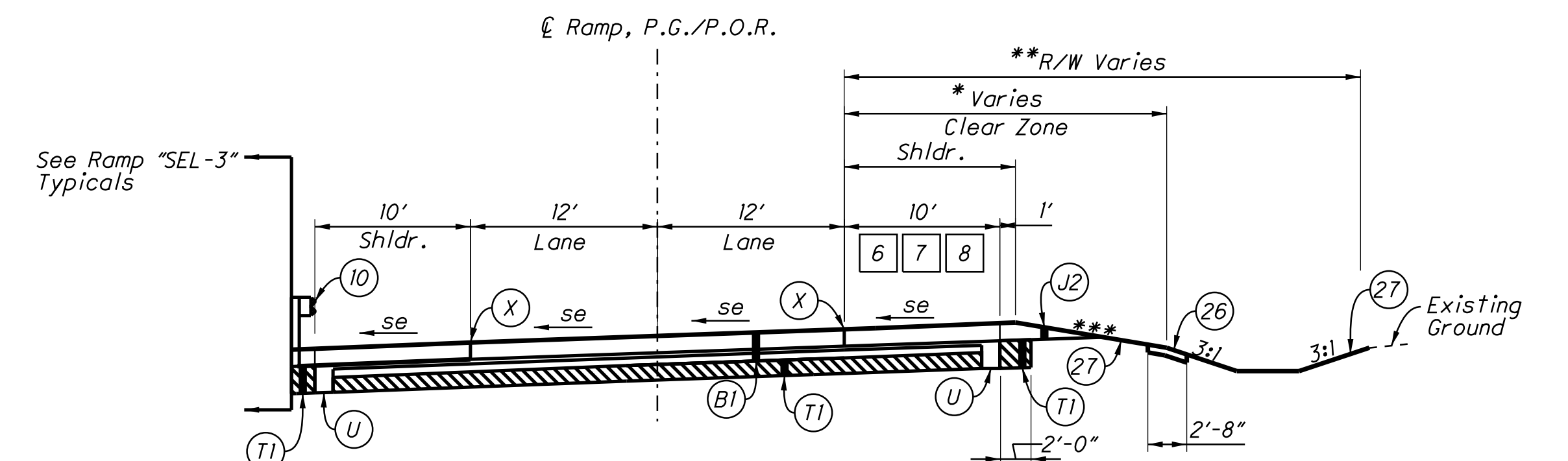
Typical Section - Ramp "NWR-3"

Sta. 1559+32.00 To Sta. 1560+00.00 Line "NWR-3"



Typical Superelevated Section - Ramp "NWR-3"

Sta. 1560+00.00 to Sta. 1562+82.90 Line "NWR-3"
Sta. 1576+14.15 to Sta. 1579+88.74 Line "NWR-3"



Typical Superelevated Section with Guardrail - Ramp "NWR-3"

Sta. 1562+82.90 to Sta. 1564+19.83 Line "NWR-3"
Sta. 1568+36.30 to Sta. 1574+05.83 Line "NWR-3"

Paving Exception

Sta. 1574+05.83 To Sta. 1576+14.15 "NWR-3"

- | | | | | | | | |
|---|---|---|--|----|--|----|--|
| 1 | Varies 4' To 6.2'
Sta. 1558+49.08 To Sta. 1559+32.00 "NWR-3" | 5 | Varies 10' To 7.2'
Sta. 1579+14.89 To Sta. 1579+88.74 "NWR-3" | 9 | Varies 7.2' To 4'
Sta. 1579+88.74 To Sta. 1581+04.94 "NWR-3" | 13 | Guardrail with 12' Applies
Sta. 1576+52.61 To Sta. 1579+88.74 "NWR-3" |
| 2 | Varies 6.2' To 8'
Sta. 1559+32.00 To Sta. 1560+00.00 "NWR-3" | 6 | Guardrail With 12' Shoulder Applies
Sta. 1572+81.16 To Sta. 1573+89.89 "NWR-3" | 10 | Guardrail with 10' Applies
Sta. 1561+36.07 To Sta. 1562+82.90 "NWR-3" | 14 | Guardrail with 12' Applies
Sta. 1579+88.74 To Sta. 1581+99.81 "NWR-3" |
| 3 | Varies 8' To 10'
Sta. 1560+00.00 To Sta. 1560+75.66 "NWR-3" | 7 | Guardrail Applies
Varies 12' To 10.5'
Sta. 1573+89.89 To Sta. 1574+03.29 "NWR-3" | 11 | Guardrail with 10.5' Applies
Sta. 1576+14.15 To Sta. 1576+38.62 "NWR-3" | | |
| 4 | Varies 10.5' To 10'
Sta. 1576+14.15 To Sta. 1576+52.61 "NWR-3" | 8 | Guardrail With 10.5' Applies
Sta. 1574+03.29 To Sta. 1574+05.83 "NWR-3" | 12 | Guardrail Applies
Varies 10.5' to 12'
Sta. 1576+38.62 To Sta. 1576+52.61 "NWR-3" | | |

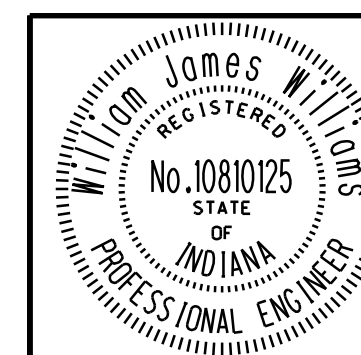
* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)

** See Cross Sections For Specific Dimensions

*** Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

- (B) OC/OA, 10.5" on Subbase For PCCP
(D-1 Joints @ 16' O.C. w/ 1.5" Dia. Dowel Bars)
OR
165 lb/Sys OC/OA-HMA, 4, 76, Surface 9.5 mm, on
275 lb/Sys OC/OA-HMA, 4, 76, Intermediate 19.0 mm, on
330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm, on
250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on
330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm

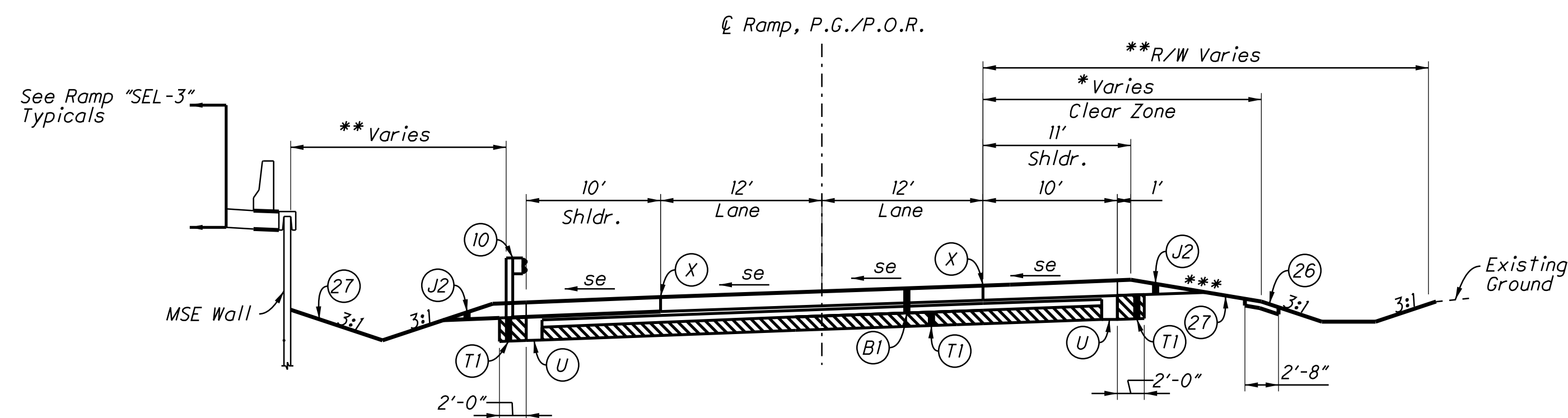
- (C) Concrete, C, Railing
(J2) Compacted Aggregate, No. 53, Variable Depth
(TI) Subgrade Treatment, Type IA
(U) 6" Underdrain Pipe
(X) Construction Joint
(10) W-Beam Guardrail
(26) Sodding
(27) Seeding, R



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

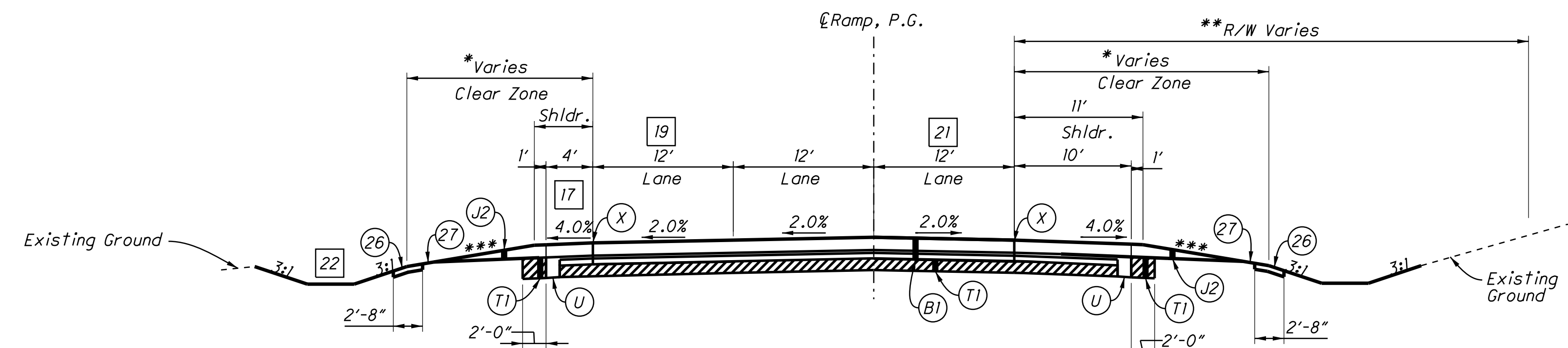
INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS RAMP "NWR-3"	

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	TY-02
CONTRACT	PROJECT
IR-33742	1006075



Typical Superelevated Section with Wall - Ramp "NWR-3"

Sta. 1564+19.83 to Sta. 1568+36.30 Line "NWR-3"

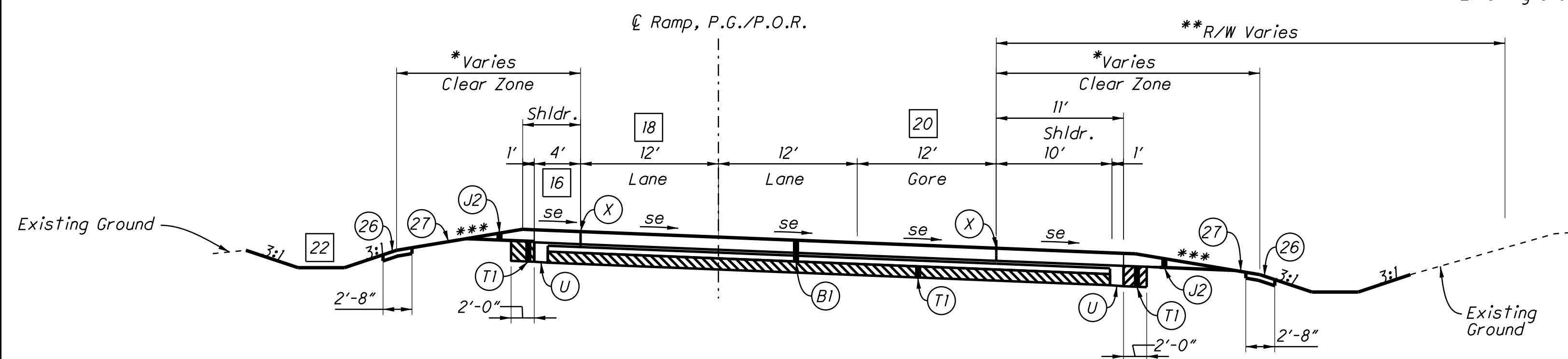


Typical Section - Ramp "NWR-3"

Sta. 1593+09.00 to Sta. 1597+85.14 Line "NWR-3"

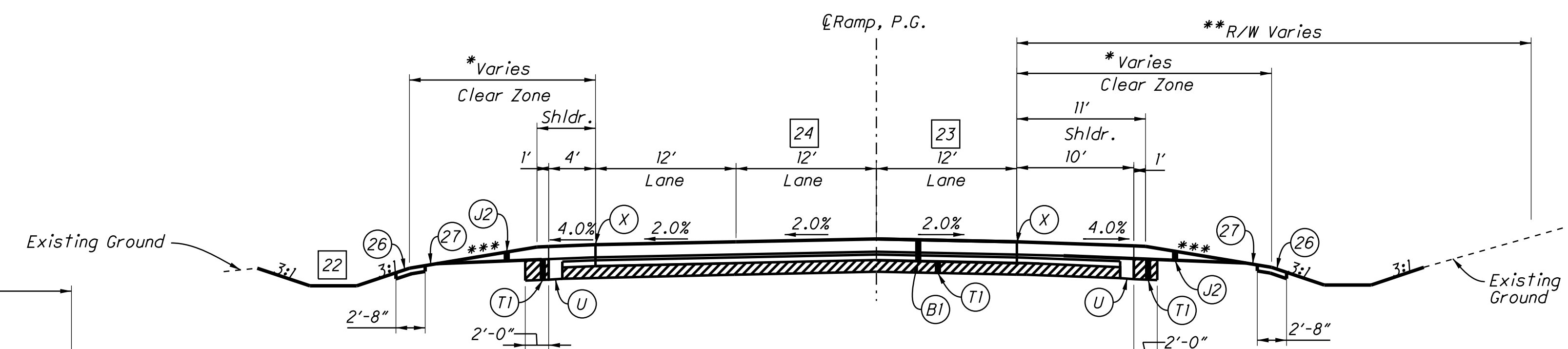
Paving Exception

Sta. 1574+05.83 To Sta. 1576+14.15 "NWR-3"



Typical Superelevated Section - Ramp "NWR-3"

Sta. 1582+81.00 to Sta. 1593+09.00 Line "NWR-3"



Typical Section - Ramp "NWR-3"

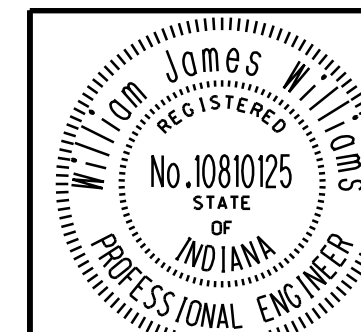
Sta. 1597+85.14 To Sta. 1599+69.39 Line "NWR-3"

* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)

** See Cross Sections For Specific Dimensions

*** Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

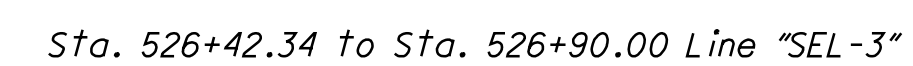
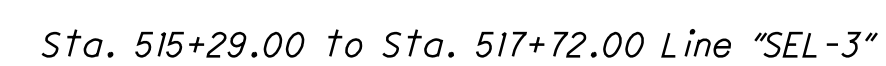
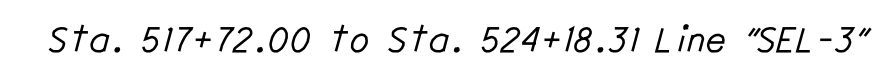
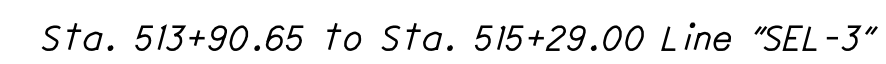
- | | | | |
|---|--|------------------------|-----------------|
| (B1) OC/OA, 10.5" on Subbase For PCCP (ID-1 Joints @ 16' O.C. w/ 1.5" Dia. Dowel Bars) OR 165 lb/Sys OC/OA-HMA, 4, 76, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 4, 76, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm | (J2) Compacted Aggregate, No. 53, Variable Depth | (U) 6" Underdrain Pipe | (27) Seeding, R |
| (T1) Subgrade Treatment, Type 1A | (X) Construction Joint | (10) W-Beam Guardrail | |
| (M) 8.5" Concrete Moment Slab | (26) Sodding | | |
| (W) MSE Wall | | | |



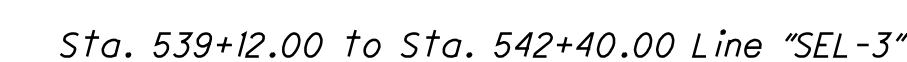
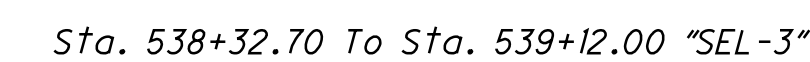
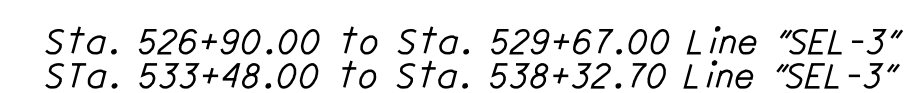
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS RAMP "NWR-3"	

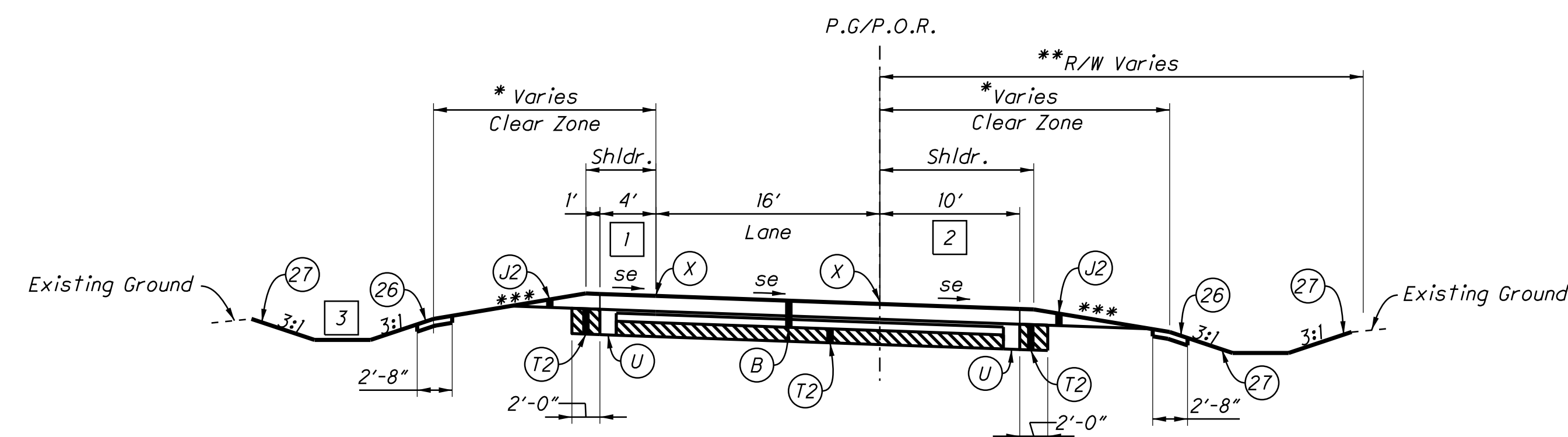
HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'	
VERTICAL SCALE	DESIGNATION
	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	9 of 173
CONTRACT	PROJECT
IR-33742	1006075



- 9/25/12 - Revised Typical

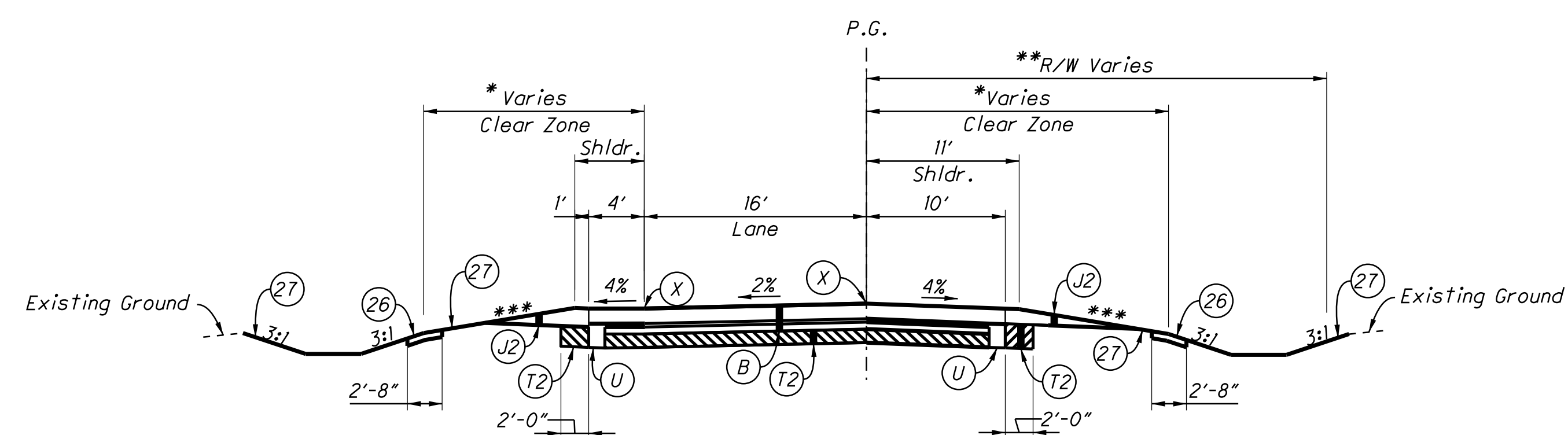


- 1 9/25/12 - Revised Typical



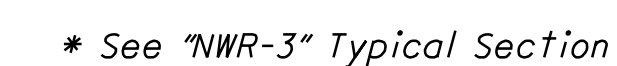
Typical Superelevated Section - Ramp "SER-3"

Sta. 1515+85.00 to Sta. 1525+87.90 Line "SER-3"



Typical Section - Ramp "SER-3"

Sta. 1515+20.69 to Sta. 1515+85.00 Line "SER-3"



Typical Superelevated Section - Ramp "SER-3"

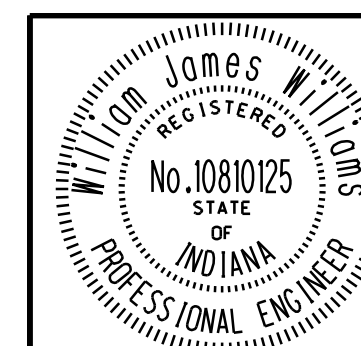
Sta. 1525+88.00 to Sta. 1527+31.33 Line "SER-3"


* See Clear Zone Table On The Typical Detail Sheet TY-07 For Actual Lengths (Sheet 13)

**** See Cross Sections For Specific Dimensions**

***Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

(B)	OC/OA, 8.5" on	(JP)	Compacted Aggregate, No. 53, Variable Depth	(26)	Sodding
	Subbase For PCCP	(T2)	Subgrade Treatment, Type IIA	(27)	Seeding, R
	(D-I Joints @ 16' O.C. w/ 1" Dia. Dowel Bars)				
	OR				
	165 lb/Sys OC/OA-HMA, 2, 70, Surface 9.5 mm, on				
	275 lb/Sys OC/OA-HMA, 2, 70, Intermediate 19.0 mm, on				
	330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm, on	(U)	6" Underdrain Pipe		
	250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on				
	330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm	(X)	Construction Joint		



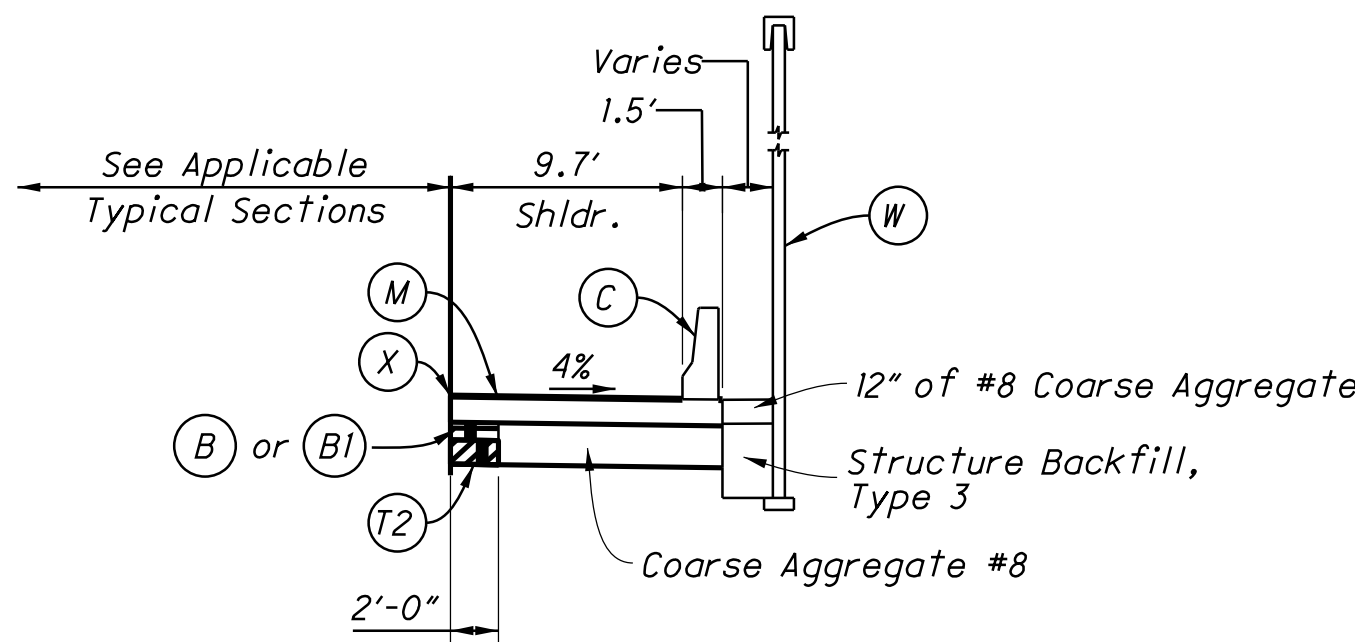
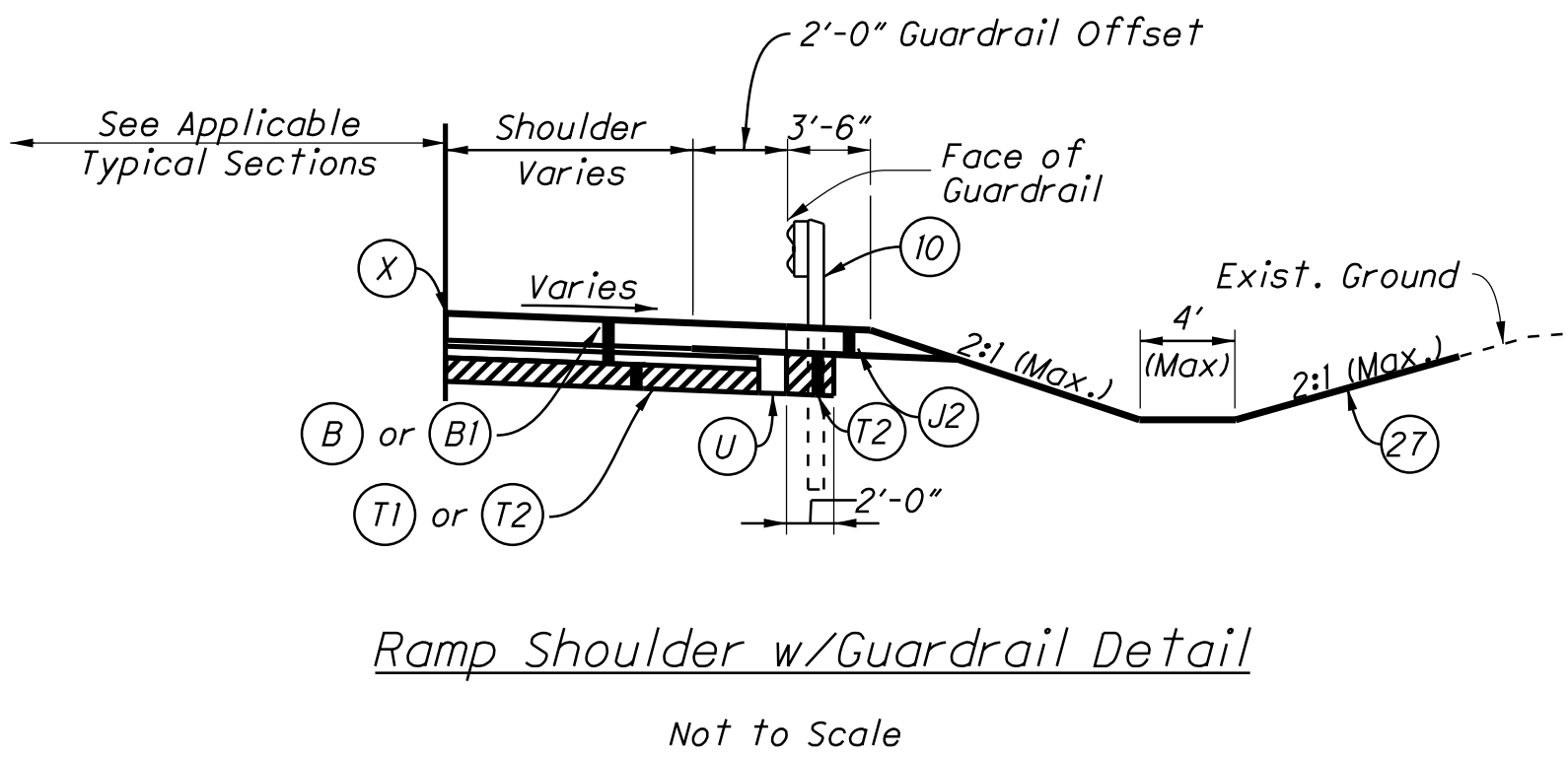
RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER	9/4/2011 DATE
DESIGNED: <u>JB</u>	DRAWN: <u>ETD</u>	
CHECKED: <u>RT</u>	CHECKED: <u>WJW</u>	

- 1 Guardrail With 6' Shoulder Applies
Sta. 1516+00.00 To 1520+00.00 "SER-3"
- 2 Varies 10' To 8'
Sta. 1516+69.44 To Sta. 1517+20.02 Line "SER-3"
- 3 6:1 Special V-Ditch Applies
Sta. 1522+47.00 To Sta. 1525+90.00 Line "SER-3"

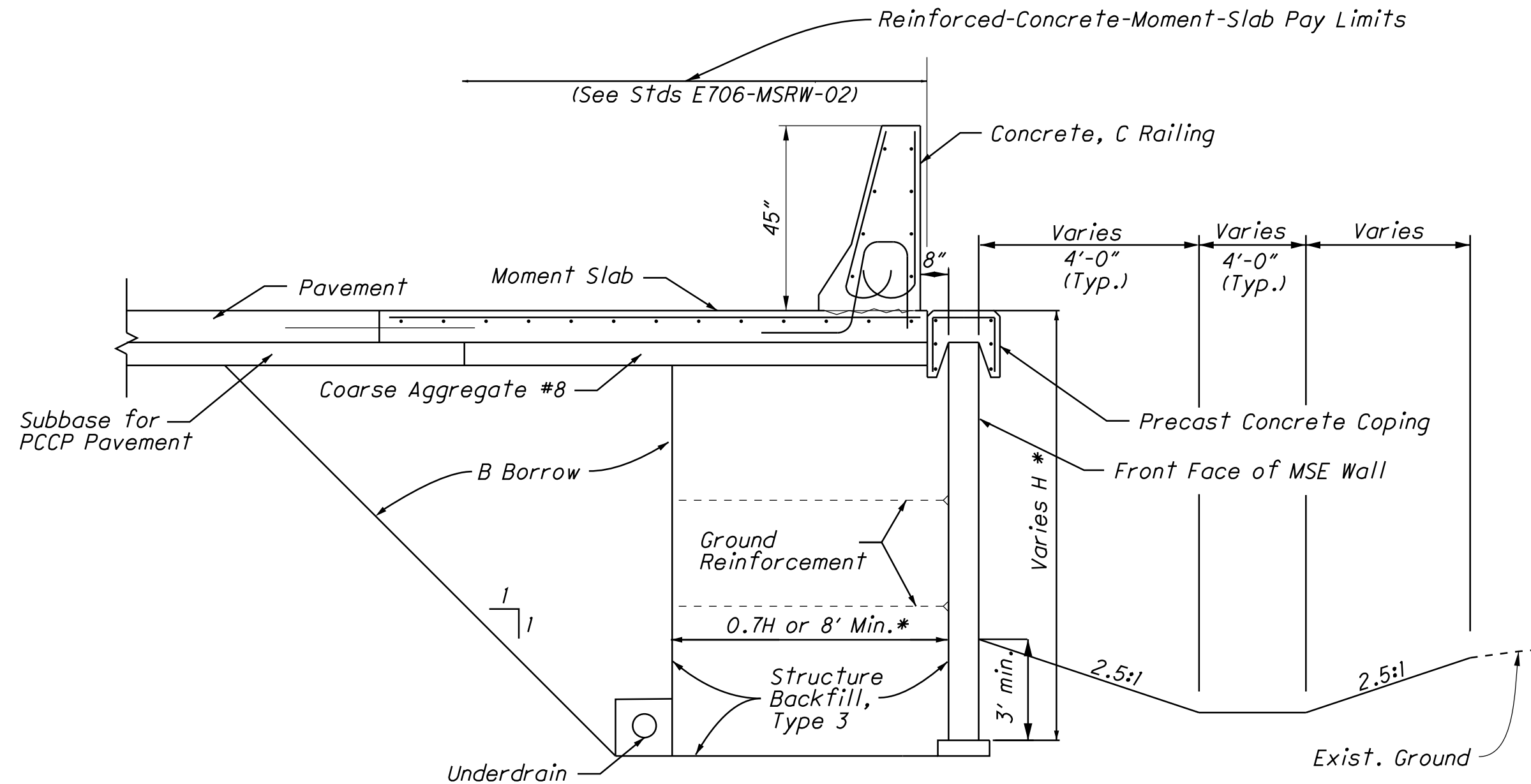
2	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE $\frac{1}{8"} = 1'$	BRIDGE FILE
		VERTICAL SCALE	DESIGNATION 1006075
	TYPICAL SECTIONS RAMPS "SR-3"	SURVEY BOOK	PAGE SHEETS 11-06 12 of 173
		ELECTRONIC / AERIAL CONTRACT UL 8-2	PROJECT PROPOSED

Ramp	Station		Design Speed (mph)	Clear Zone (ft)	
	From	To		Lt	Rt
NER-3					
	500+00.00	506+89.00	45	20	20
	506+89.00	514+86.00	45	20	24
	514+86.00	515+56.00	45	20	20
	515+56.00	530+92.08	45	24	20
NWR-3					
	1550+40.68	1559+32.00	50	26	20
	1559+32.00	1560+00.00	45	20	20
	1560+00.00	1574+05.83	45	20	25
	1576+14.15	1579+88.74	45	20	25
	1579+88.74	1593+09.00	45	24	20
SEL-3					
	513+90.65	517+72.00	45	12	15
	517+72.00	524+18.31	45	12	12
	526+42.34	526+90.00	45	12	12
	526+90.00	539+12.00	30	11	10
SER-3					
	539+12.00	542+40.00	60	20	20
	1515+21.34	1515+85.00	50	12	12
	1515+85.00	1525+87.90	35	12	10

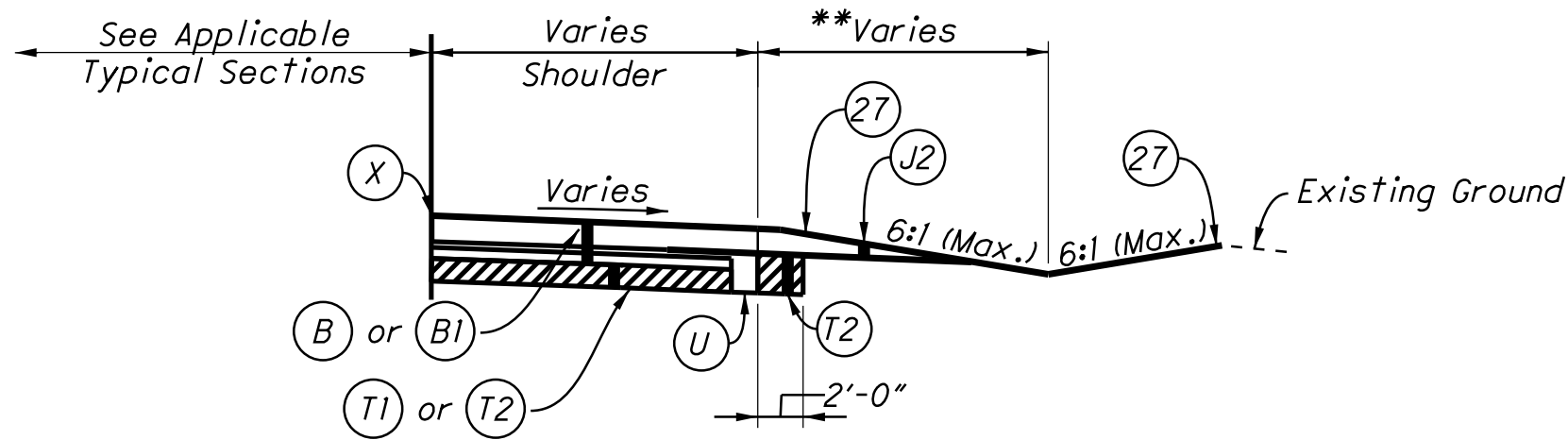
Clear Zone Table



Typical Section - Ramp Shoulder with Bridge Rail Detail



Typical Section - Moment Slab Detail

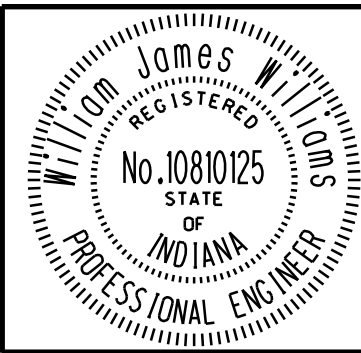


6:1 Special V-Ditch Detail

** See Cross Sections For Specific Dimensions
*** Grade Varies (6:1 Max), See Cross Sections For Specific Grade & Locations

- (B) OC/OA, 10.5" on Subbase For PCCP (D-I Joints @ 16' O.C. w/ 1.5" Dia. Dowel Bars) OR 165 lb/Sys OC/OA-HMA, 4, 76, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 4, 76, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 4, 64, Base 19.0 mm
- (BI) OC/OA, 8.5" on Subbase For PCCP (D-I Joints @ 16' O.C. w/ 1" Dia. Dowel Bars) OR 165 lb/Sys OC/OA-HMA, 2, 70, Surface 9.5 mm, on 275 lb/Sys OC/OA-HMA, 2, 70, Intermediate 19.0 mm, on 330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm, on 250 lb/Sys OC/OA-HMA, 5, 76, Intermediate OG19.0 mm, on 330 lb/Sys OC/OA-HMA, 2, 64, Base 19.0 mm

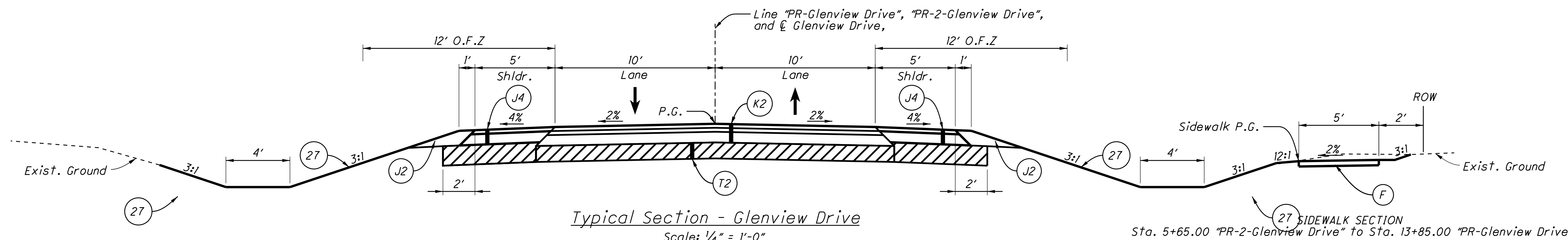
- (C) Concrete, C, Railing
(J2) Compacted Aggregate, No. 53, Variable Depth
(M) 8.5" Concrete Moment Slab
(T1) Subgrade Treatment, Type IA
- (T2) Subgrade Treatment, Type IIA
(U) 6" Underdrain Pipe
(W) MSE Wall
(X) Construction Joint
- (10) W-Beam Guardrail
(27) Seeding, R



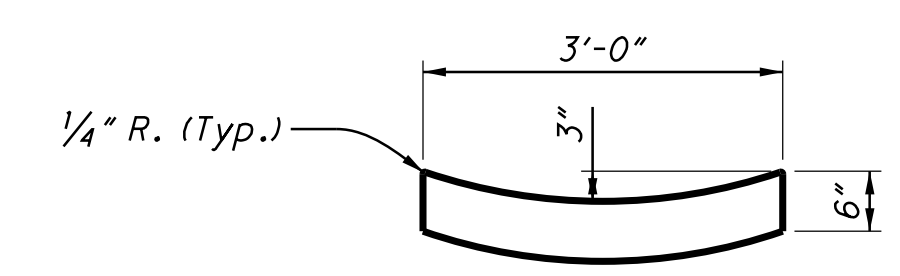
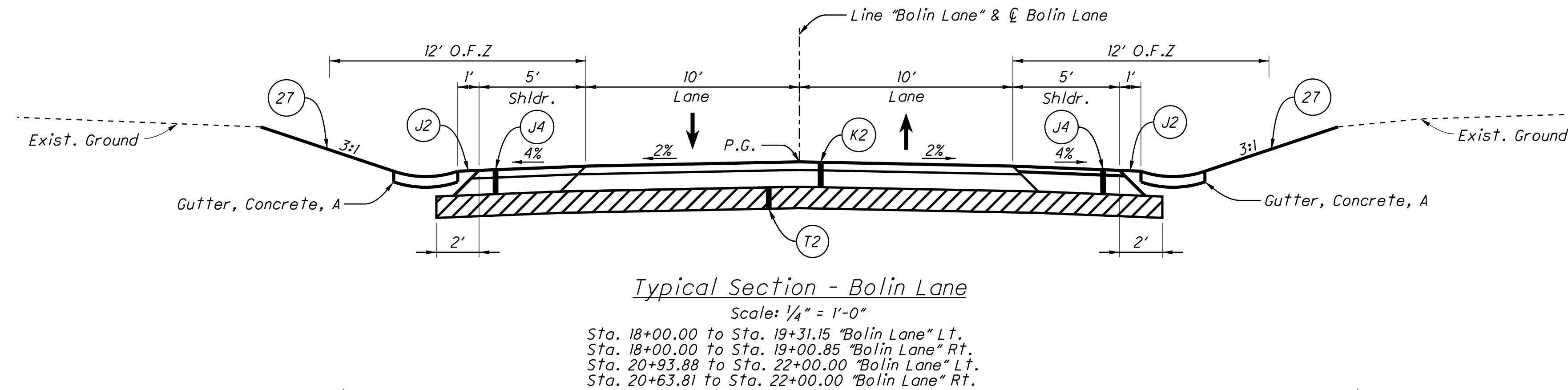
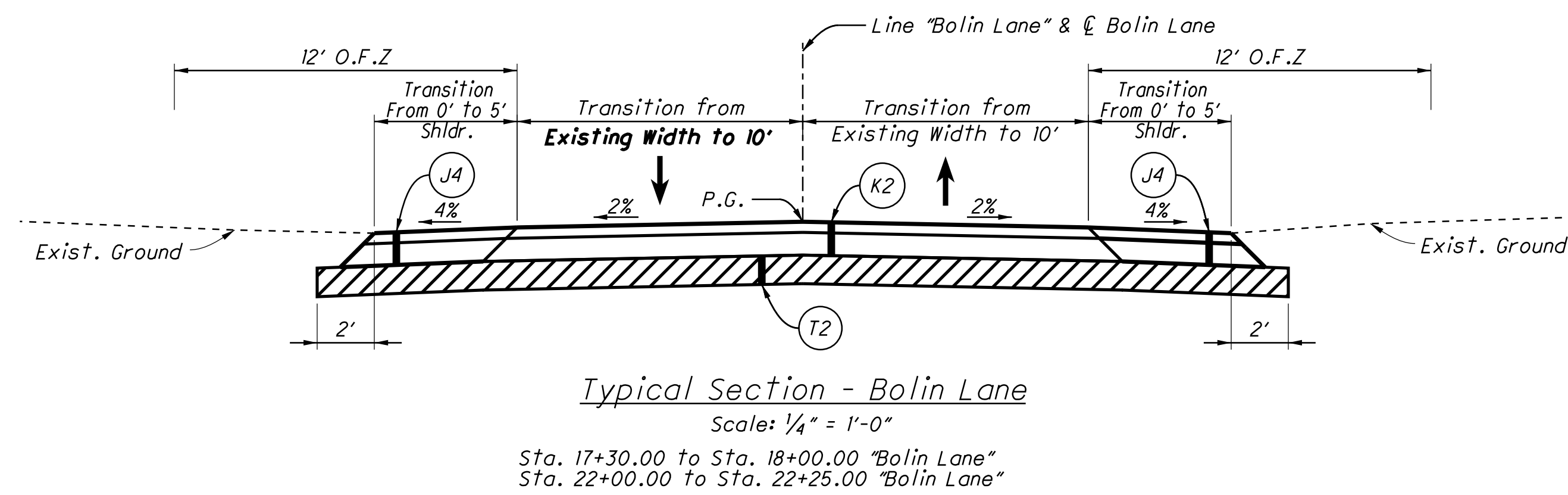
RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS DETAIL SHEET

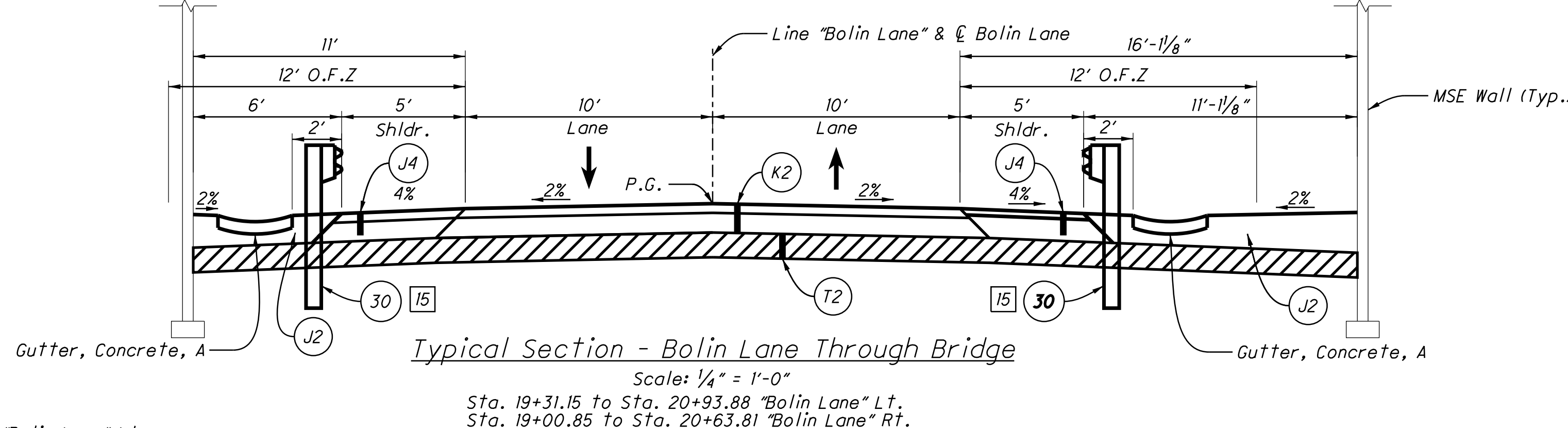
HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE TY-07
CONTRACT IR-33742	SHEETS 13 of 173 PROJECT 1006075



Station Equation
 POT Sta. 6+31.15 "PR-2-Glenview Drive" (BK) =
 PT Sta. 6+26.45 "PR-Glenview Drive" (AH)

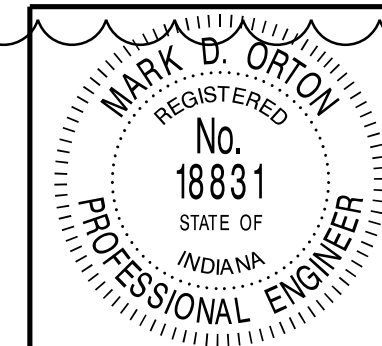


GUTTER, CONCRETE, A DETAIL
 Scale: N.T.S.
 Sta. 18+00.00 to Sta. 22+25.00 "Bolin Lane" Lt.
 Sta. 18+00.00 to Sta. 20+60.95 "Bolin Lane" Rt.



- (K2) 165 lbs/Sys HMA, Surface, Type "B" on 275 lbs/Sys HMA, Intermediate, Type "B" on 6" Compacted Aggregate, No. 53, Base
- (J4) 165 lbs/Sys HMA, Surface, Type "B" on 275 lbs/Sys HMA, Intermediate, Type "B" on 6" Compacted Aggregate, No. 53, Base
- (J2) Compacted Aggregate, No. 53, Variable Depth
- (T2) Subgrade Treatment, Type IIA
- (27) Seeding, R
- (30) Guardrail, W-Beam, 6'-3" Spa.
- (F) Concrete Sidewalk (4")
- (15) Guardrail from Sta. 19+30.00 to Sta. 21+95.00 "Bolin Lane" Lt. and Guardrail from Sta. 18+01.50 to Sta. 20+64.00 "Bolin Lane" Rt.

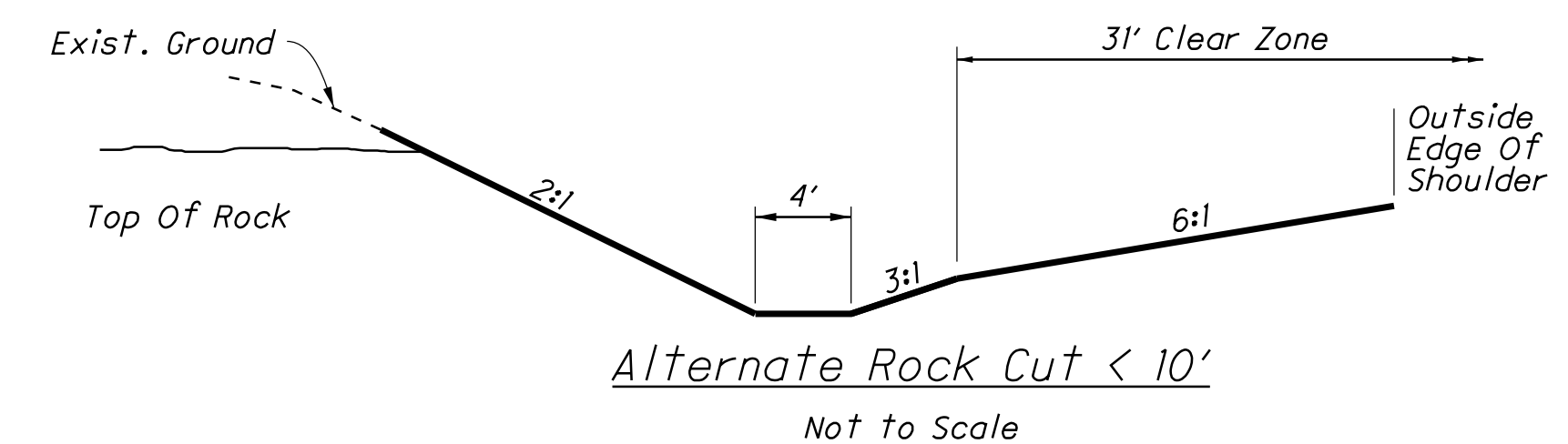
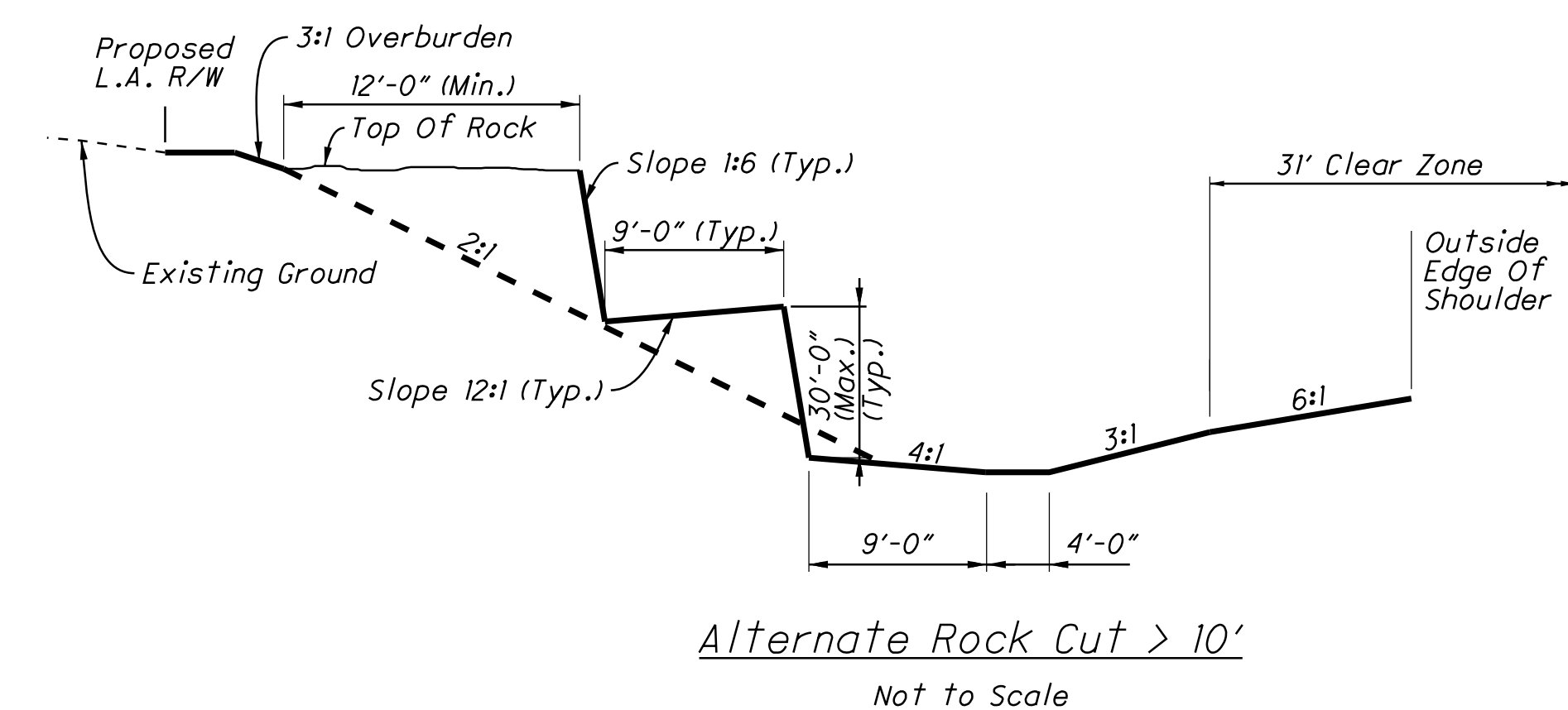
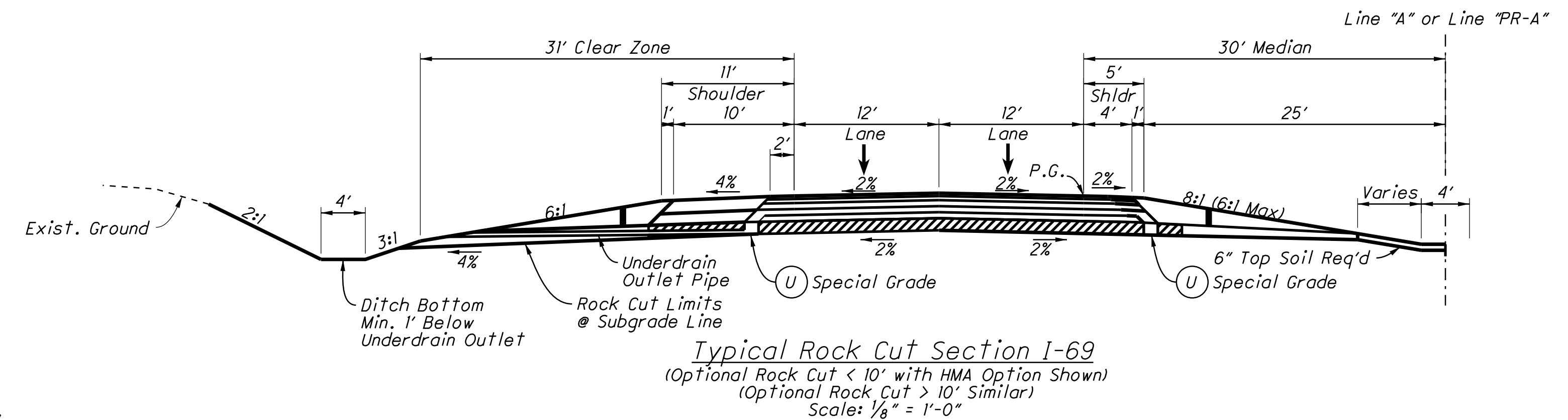
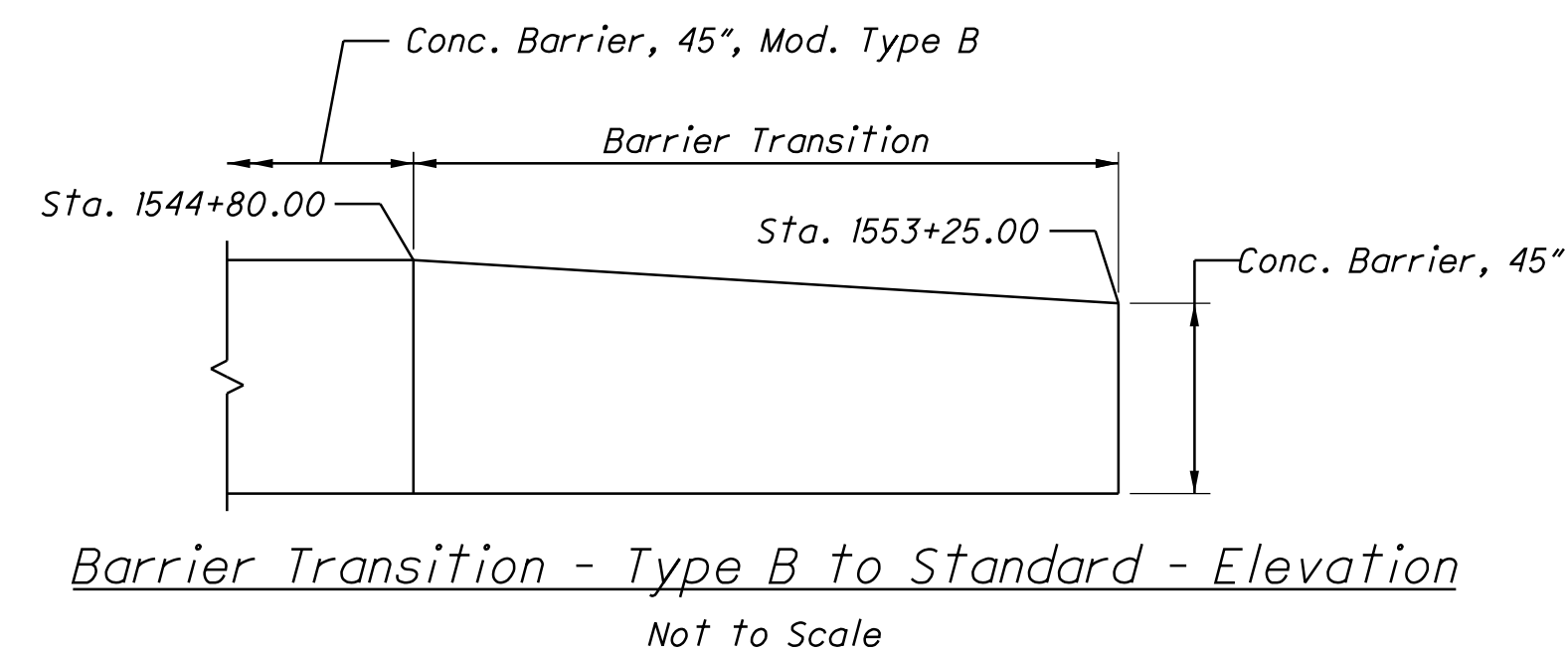
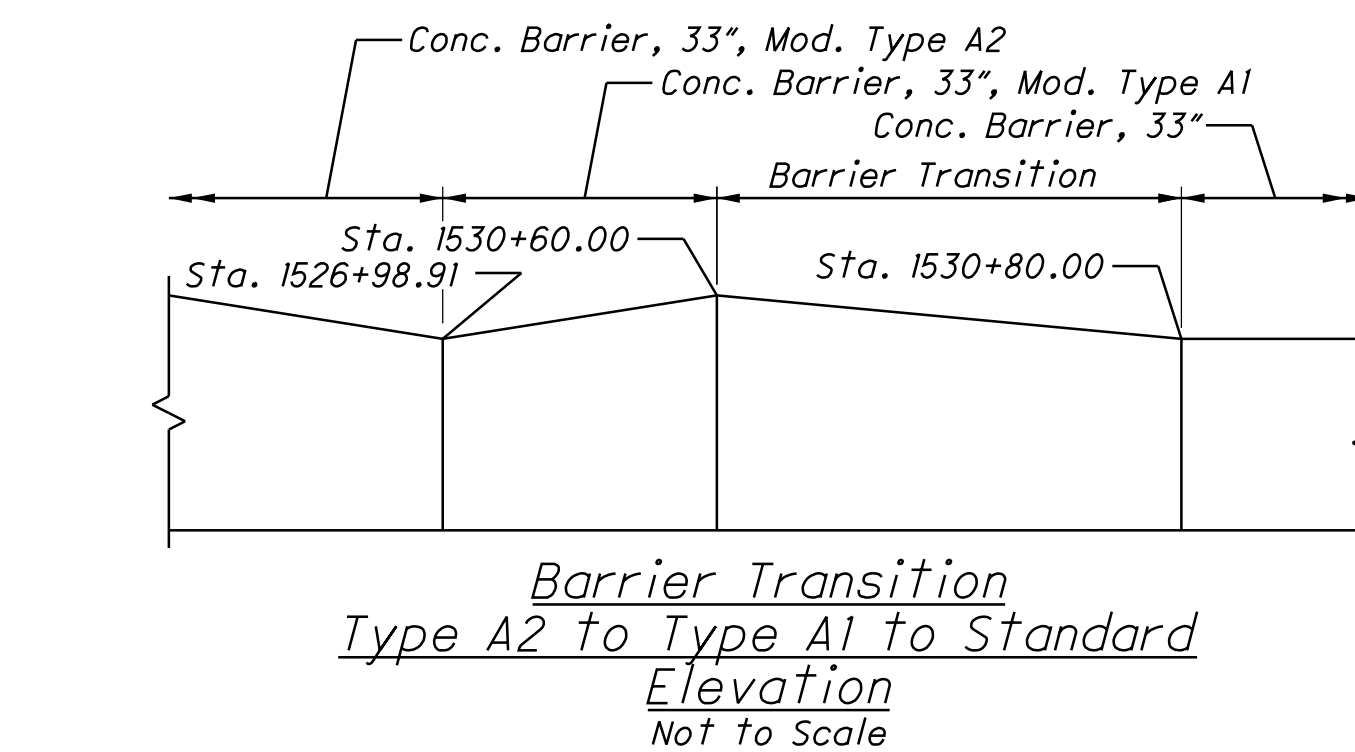
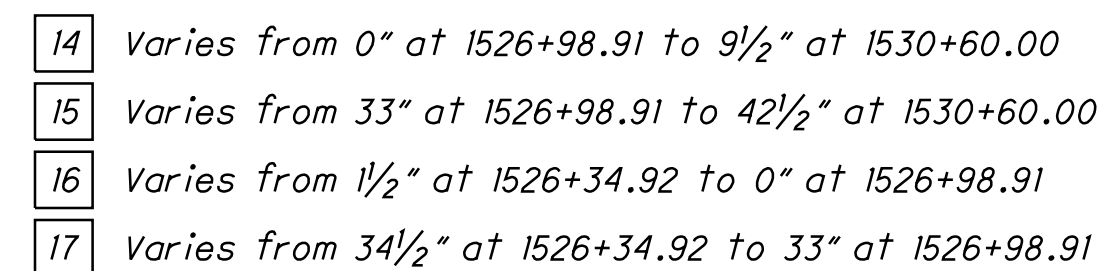
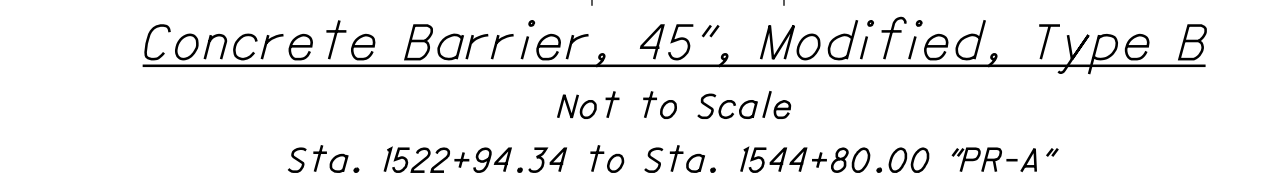
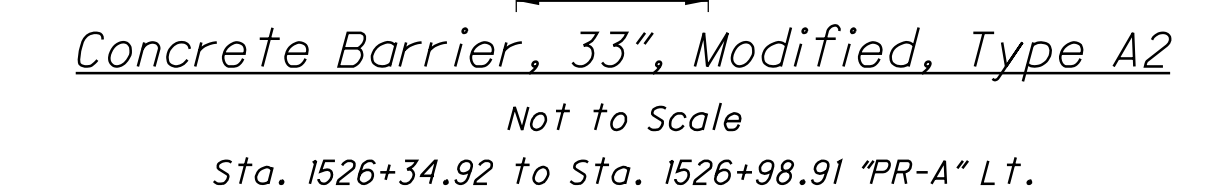
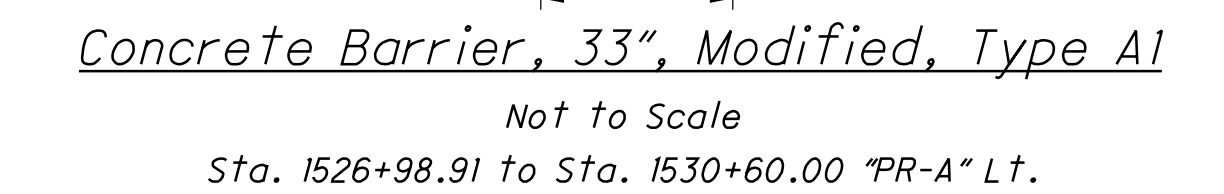
DATE: 10/1/2012
 TIME: 11:30:4 PM
 LOCATION: R:\05141 - 1-59 Section\MicroStation\Sheet Files\2506750060.Dwg



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: MDO		DRAWN: K&H			
CHECKED: HCF		CHECKED: MDO			

INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS	
BOLIN LANE & GLENVIEW DRIVE	

HORIZONTAL SCALE	AS NOTED	BRIDGE FILE	N/A
VERTICAL SCALE	AS NOTED	DESIGNATION	1006075
SURVEY BOOK	ELECTRONIC / AERIAL	PAGE	14 of 173
CONTRACT	IR-33742	PROJECT	1006075



- (A) PCCP or HMA - Rural Section
(See Applicable Typical Section for Details)
- (A1) PCCP or HMA - Urban Section
(See Applicable Typical Section for Details)
- (J) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on
330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on
6" Compacted Aggregate, No. 53, Base
- (J1) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on
495 lbs/Sys OC/OA-HMA, 1, 64, Base 25.0 mm, on
7" Compacted Aggregate, No. 53, Base
- (J2) Compacted Aggregate, No. 53, Variable Depth
- (J3) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on
330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on
660 lbs/Sys HMA, Base, Type "D"
- (T1) Subgrade Treatment
Type 1A: Shall Be Used In Embankment And
Natural Soil Or Non-Durable Rock Cut Areas
Type 1C: Shall Be Used In Rock Cut Areas
(See Geotechnical Report For Approximate Locations)
- (U) 6" Underdrain Pipe
- (Y) Longitudinal Joint
- (26) Sodding
- (27) Seeding, R

**** For Paved Shoulder Width Greater Than 4':**
 The Shoulder Slope Shall Be 4% If The Pavement Is At Normal Slope
 Of 2% Or If The Superelevation Rate Is 4% Or Less.
 The Shoulder Slope Shall Be 2% Down From The Traveled Way If The
 Superelevation Rate Is Greater Than 4% But Less Than Or Equal To 6%.
 The Shoulder Slope Shall Be 1% Up From The Traveled Way If The
 Superelevation Rate Is Greater Than 6%.



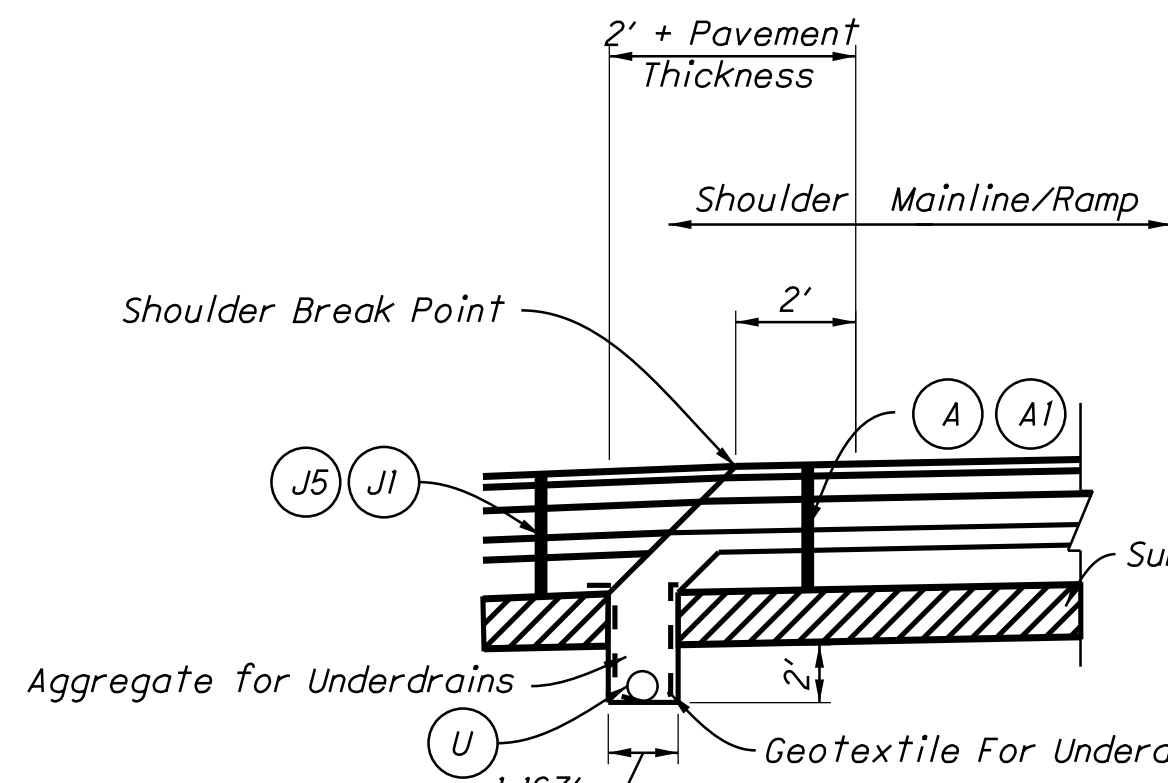
RECOMMENDED FOR APPROVAL M. D. O. 9/6/20
DESIGN ENGINEER DATE

DESIGNED: <u>MDO</u>	DRAWN: <u>BDM</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

INDIANA
DEPARTMENT OF TRANSPORTATION

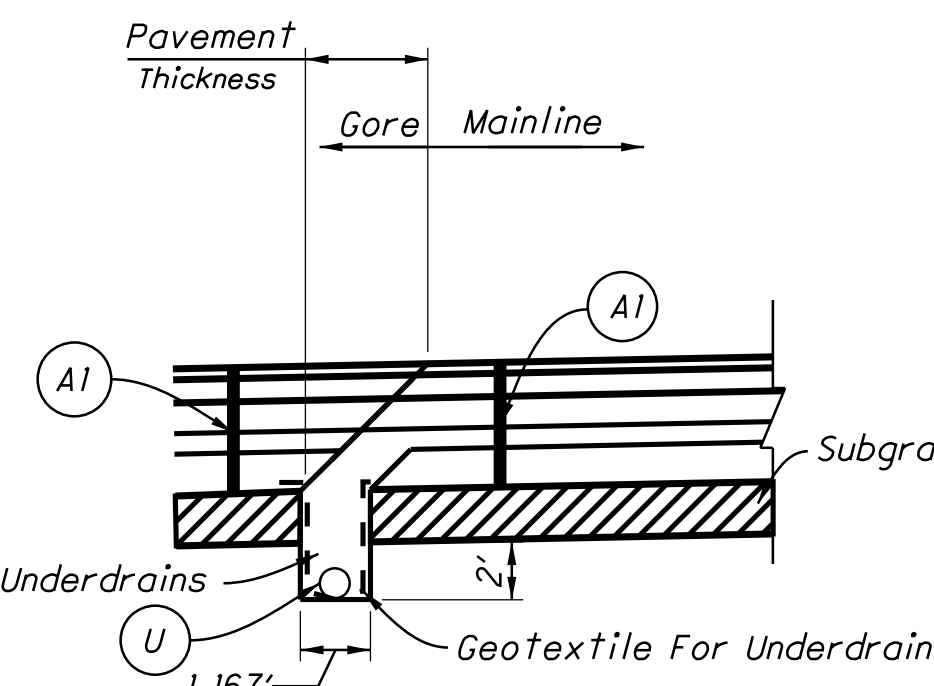
TYPICAL SECTIONS
MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE	
AS NOTED	N/A	
VERTICAL SCALE	DESIGNATION	
AS NOTED	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	TY-05	15 of 173
CONTRACT	PROJECT	
IR-33742	1006075	



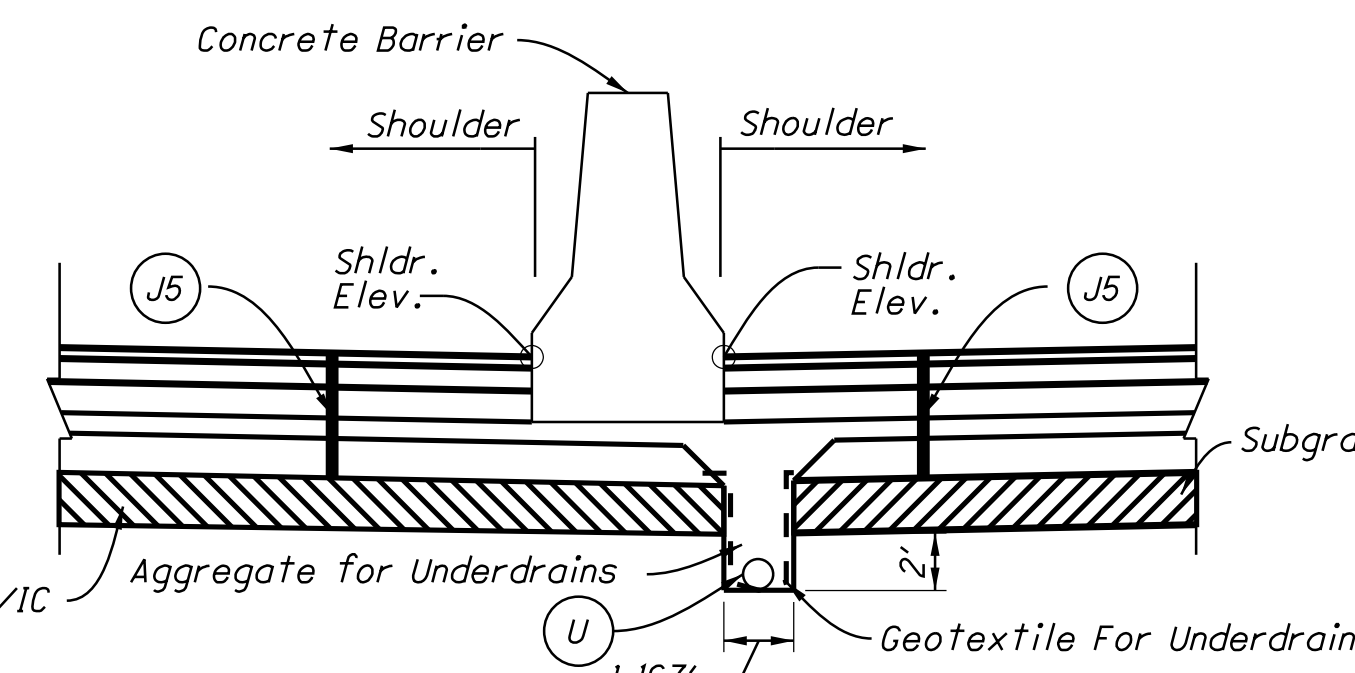
Outside Shoulder w/ Underdrain Detail - HMA Option
Not to Scale

- (A) (J1) HMA - Rural Section
(See Applicable Typical Section for Details)
- (A1) (J5) HMA - Urban Section
(See Applicable Typical Section for Details)



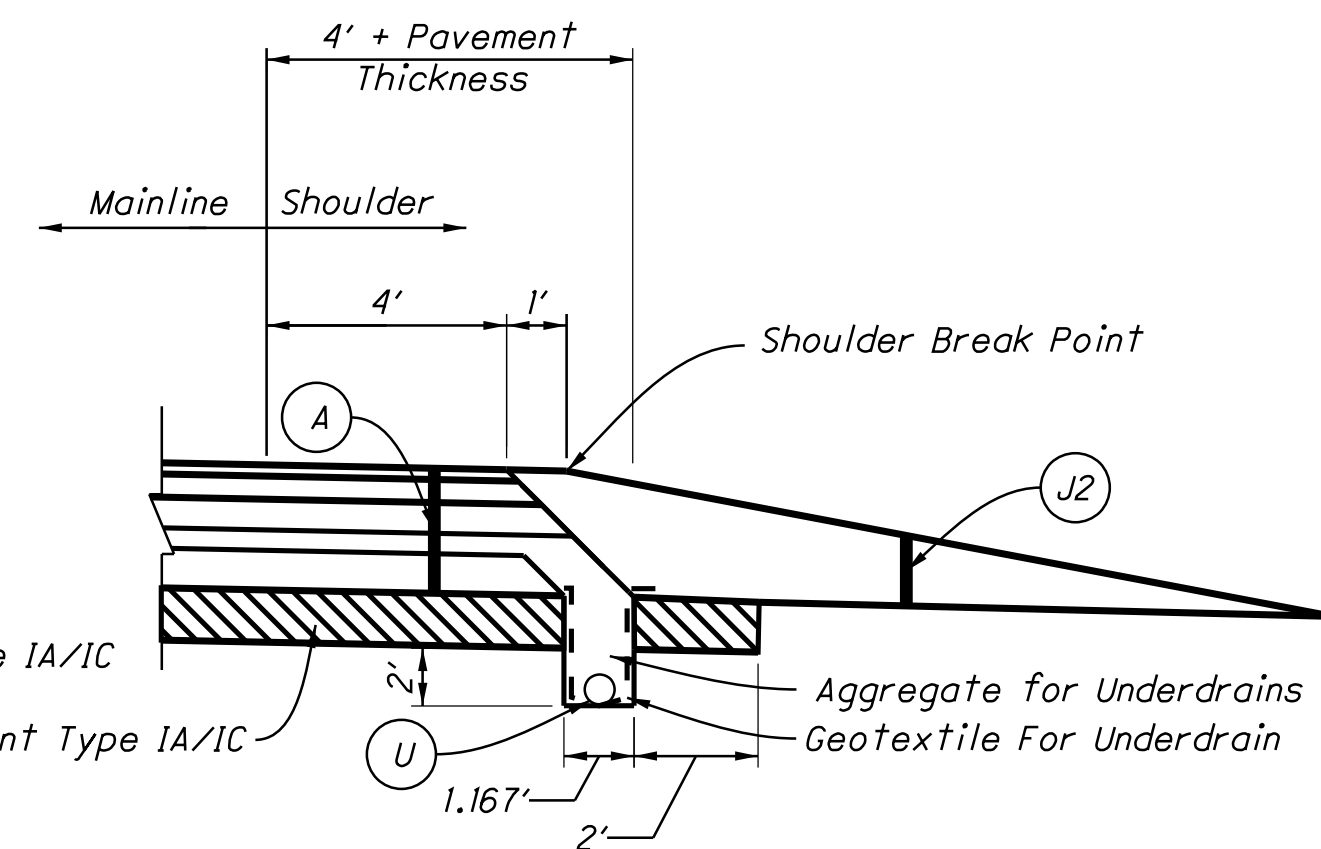
Outside Shoulder at Gore w/ Underdrain Detail - HMA Option
Not to Scale

- (A1) HMA - Urban Section
(See Applicable Typical Section for Details)



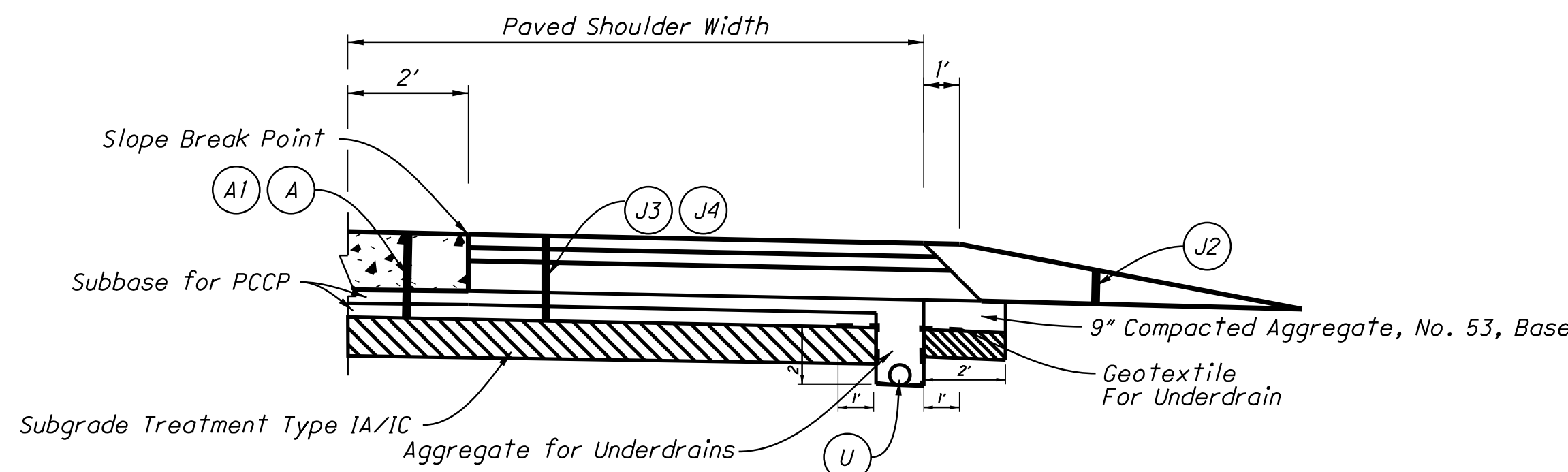
Inside Shoulder at Concrete Barrier w/ Underdrain Detail - HMA Option
Not to Scale

- (J5) HMA - Urban Section
(See Applicable Typical Section for Details)



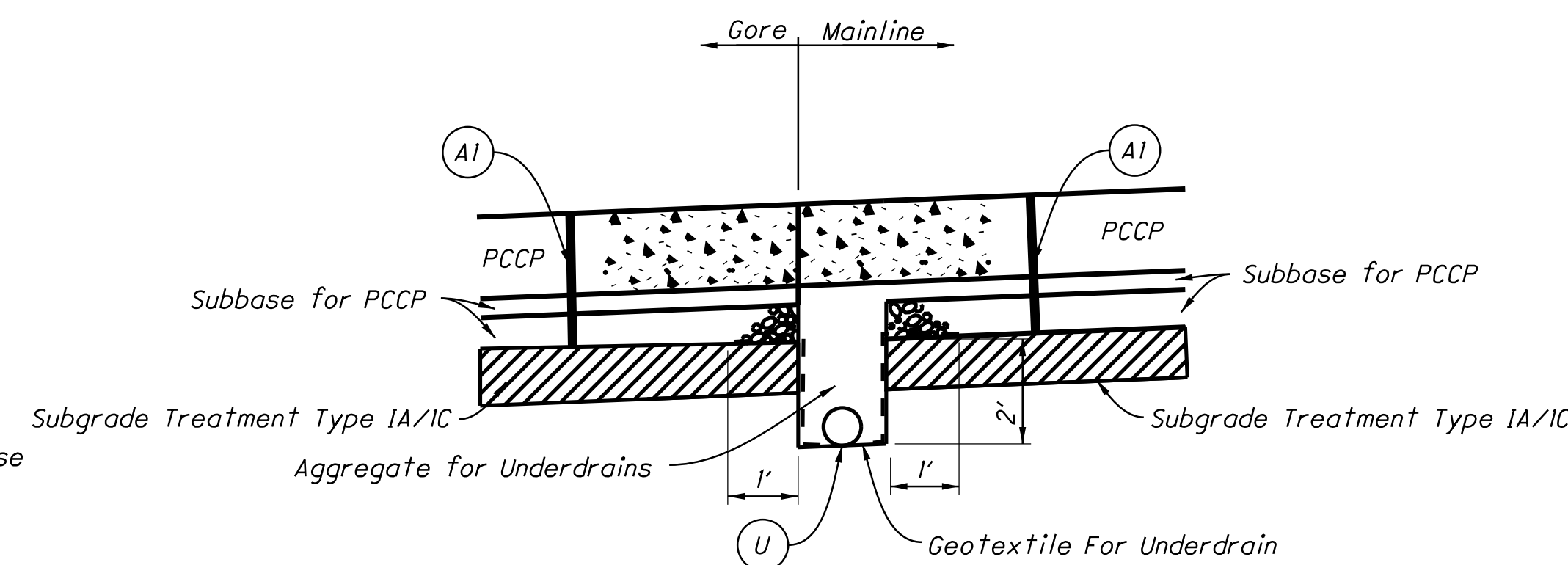
Inside Shoulder w/ Underdrain Detail - HMA Option
Not to Scale

- (A) (J2) HMA - Rural Section
(See Applicable Typical Section for Details)



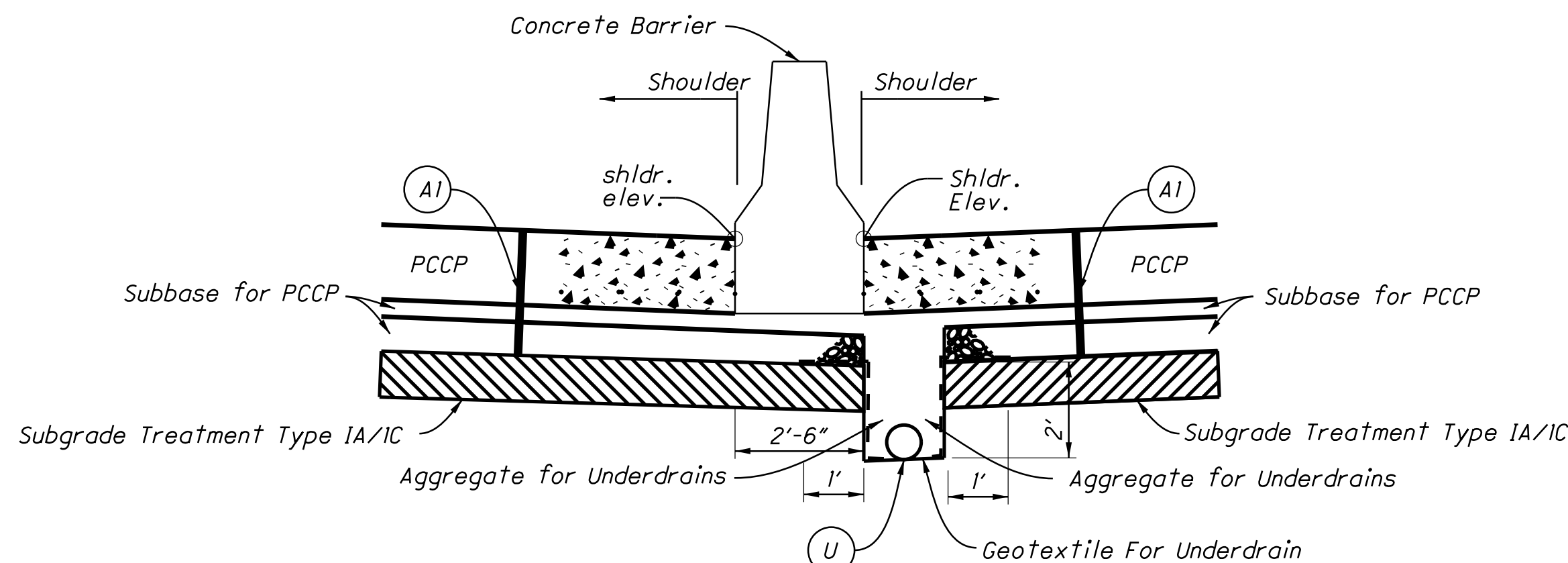
Outside Shoulder w/ Underdrain Detail - PCCP Option
Not to Scale

- (A) (J3) Rural Section
(See Applicable Typical Section for Details)
- (A1) (J4) Urban Section
(See Applicable Typical Section for Details)



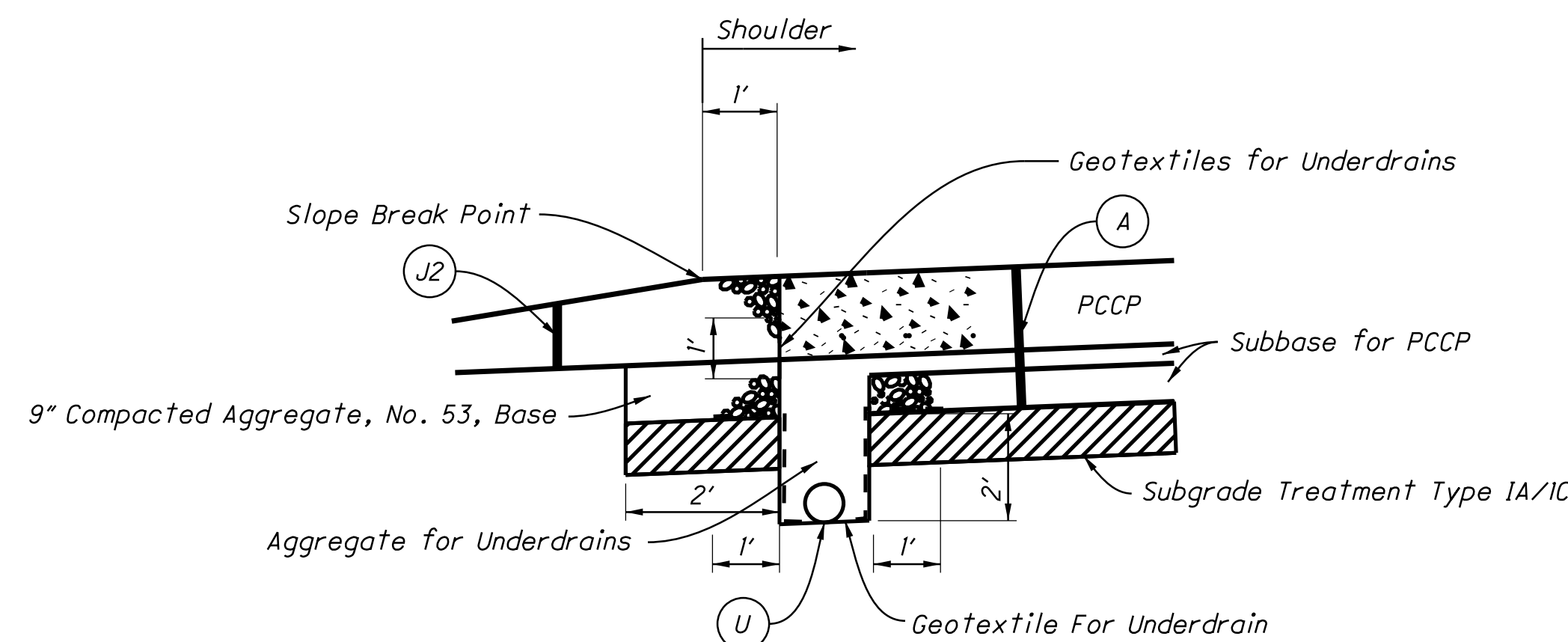
Outside Shoulder at Gore w/ Underdrain Detail - PCCP Option
Not to Scale

- (A1) PCCP - Urban Section
(See Applicable Typical Section for Details)



Inside Shoulder at Concrete Barrier w/ Underdrain Detail - PCCP Option
Not to Scale

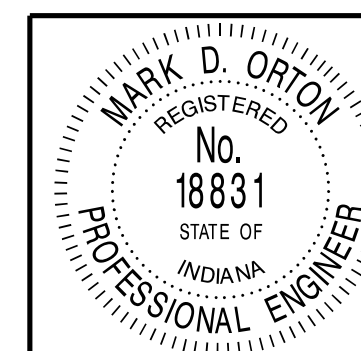
- (A1) PCCP - Urban Section
(See Applicable Typical Section for Details)



Inside Shoulder w/ Underdrain Detail - PCCP Option
Not to Scale

- (A) (J2) PCCP - Rural Section
(See Applicable Typical Section for Details)

(U) 6" Underdrain Pipe



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

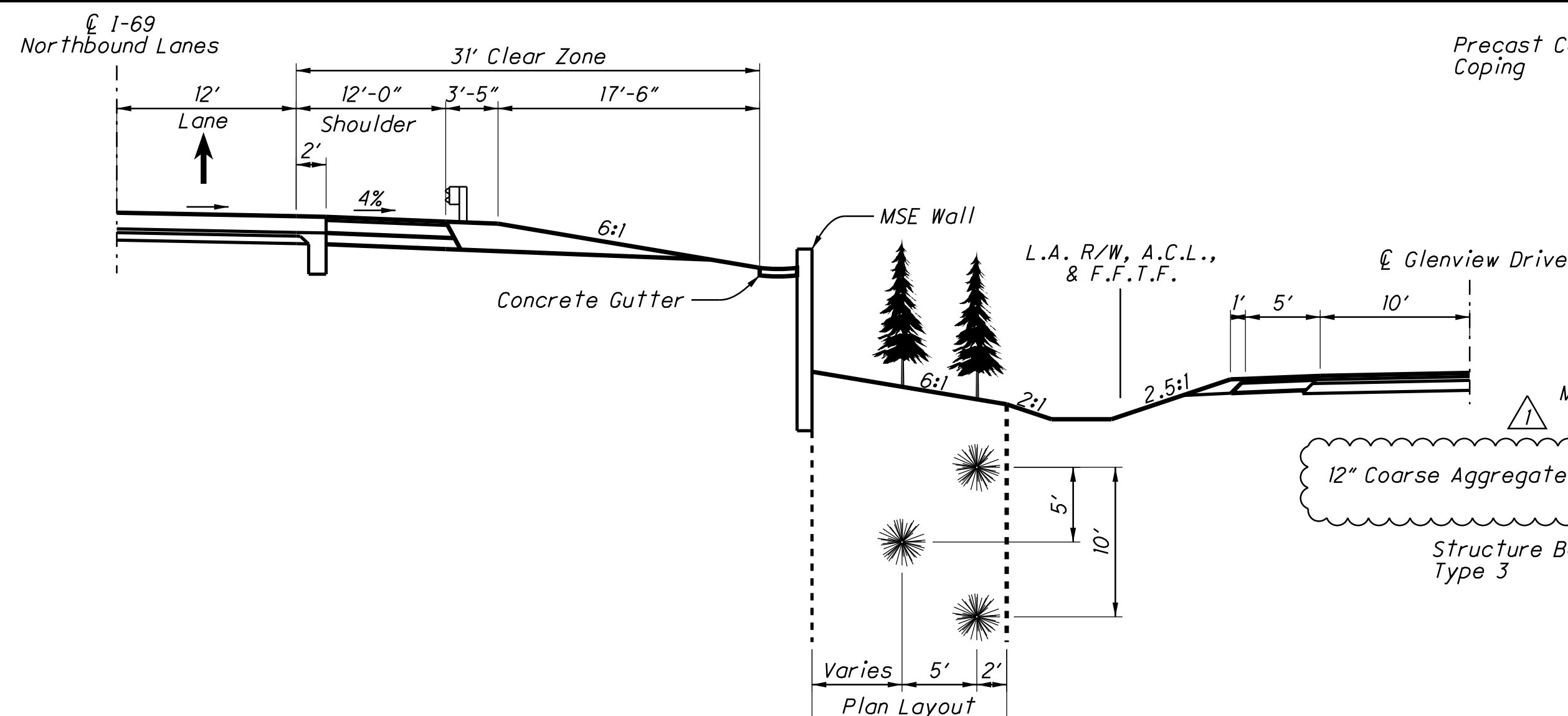
DESIGNED: MDO DRAWN: BDM
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
UNDERDRAIN DETAILS

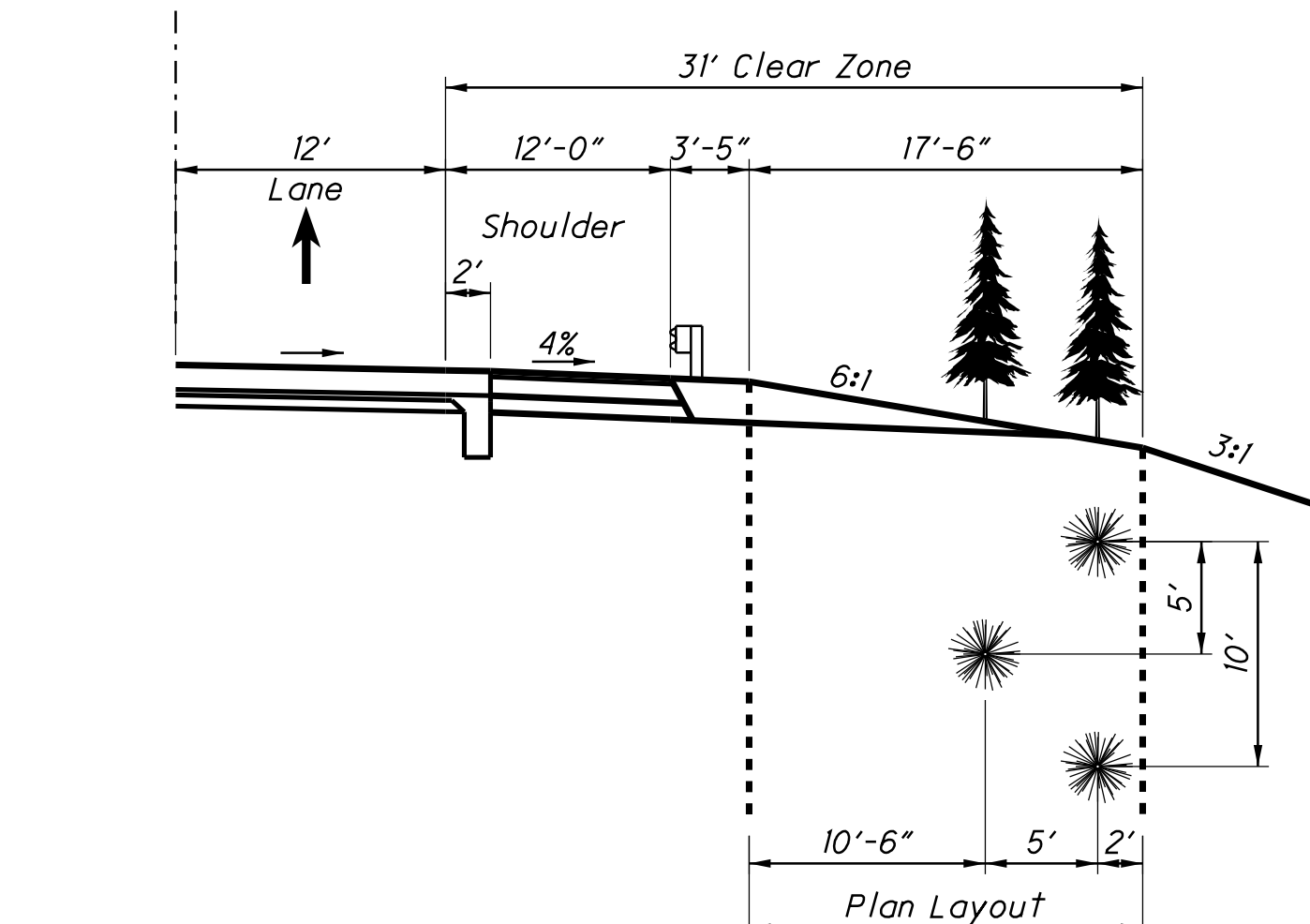
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
AS NOTED	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	TY-II
CONTRACT	PROJECT
IR-33742	1006075

DATE: 10/1/2012
TIME: 10:41:07 AM
LOCATION: R:\05141 - I-69 Section 4\MicroStation\Sheet Files\2562750DRD_1707.dgn



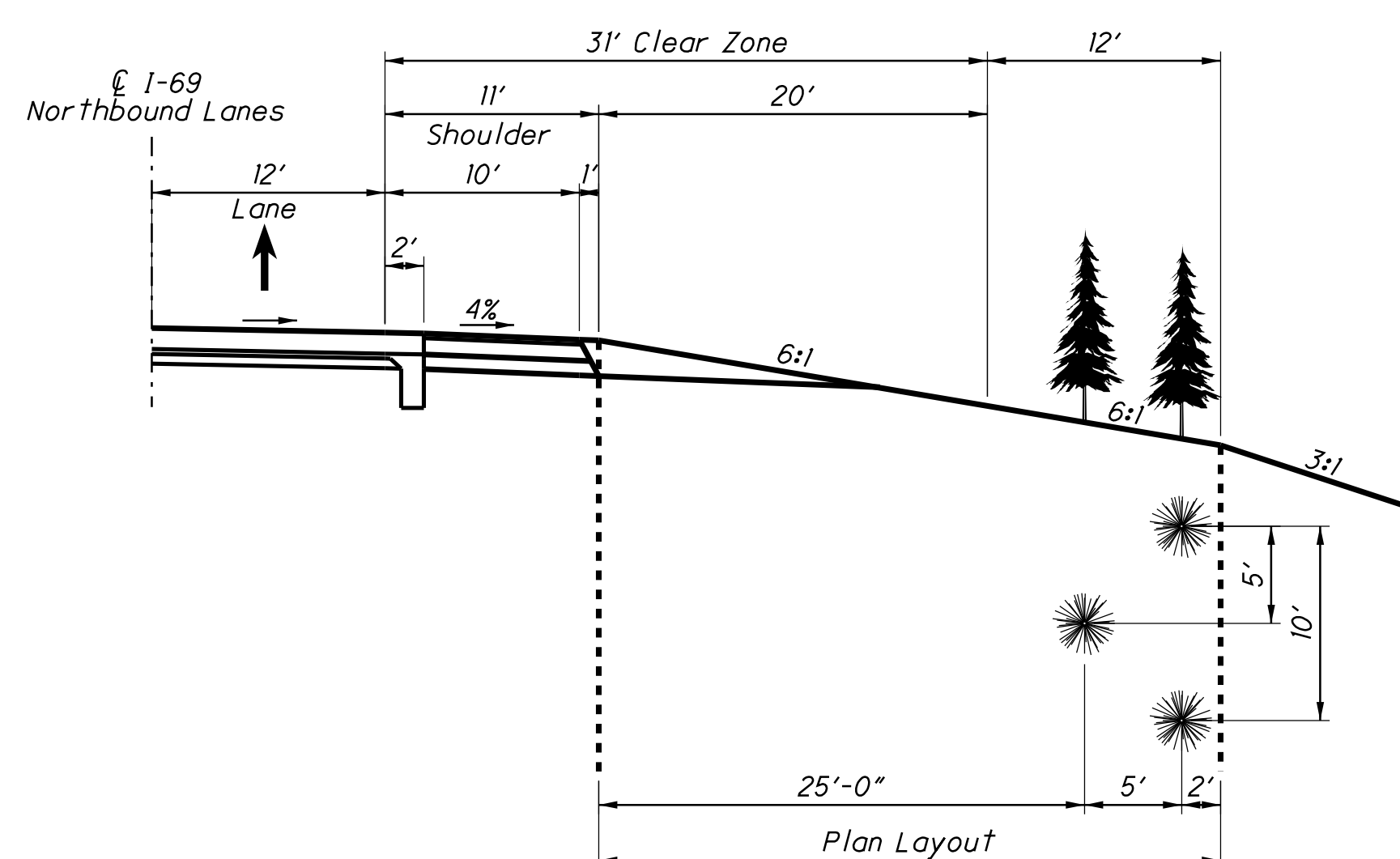
Typical Tree Screen Section with MSE Wall

Scale: $\frac{1}{8}'' = 1'-0''$
From Sta. 1490+00.00 to Sta. 1493+00.00



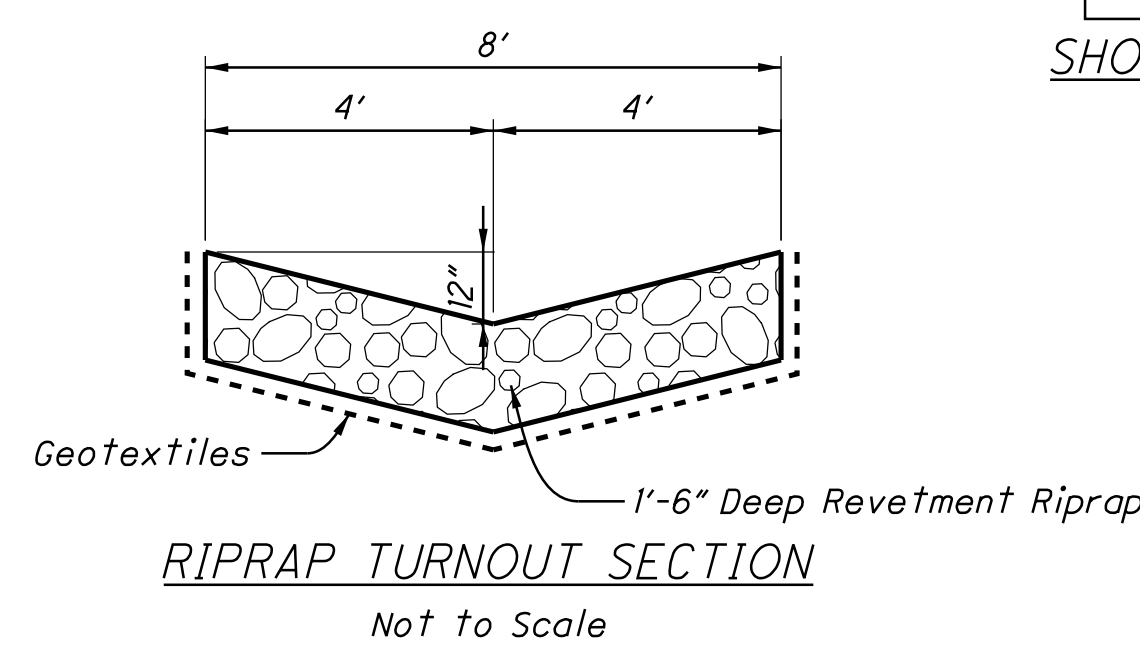
Typical Tree Screen Section with Guardrail

Scale: $\frac{1}{8}'' = 1'-0''$
From Sta. 1476+00.00 to Sta. 1490+00.00



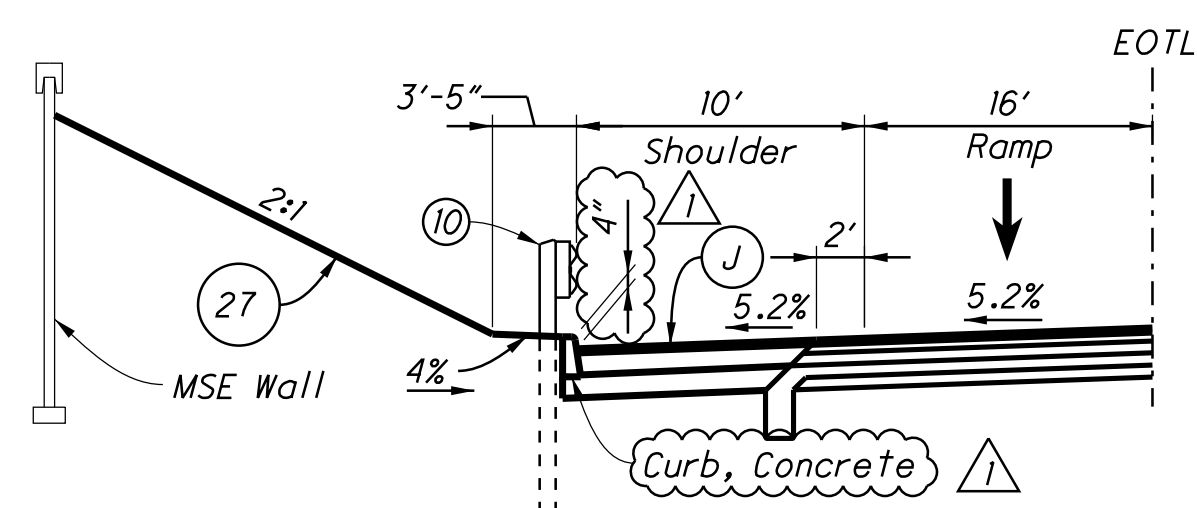
Typical Tree Screen Section

Scale: $\frac{1}{8}'' = 1'-0''$
From Sta. 1474+00.00 to Sta. 1476+00.00



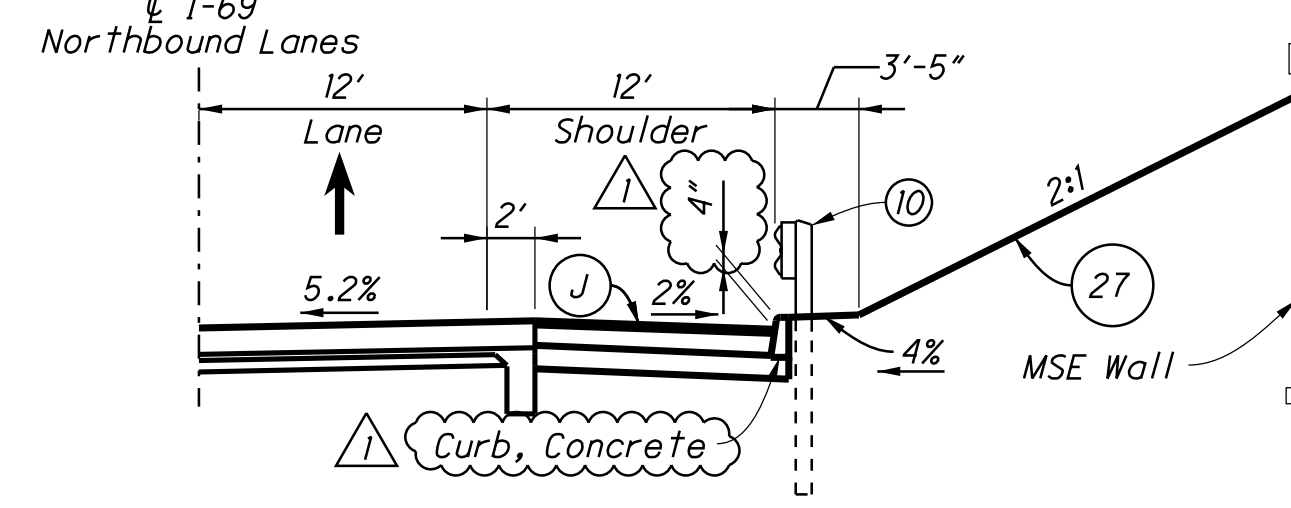
RIPRAP TURNOUT SECTION

Not to Scale



Southbound Lanes

HMA Pavement Option
Sta. 541+56.19 to Sta. 541+90.92 Line "SEL-3"
Sta. 544+76.84 to Sta. 545+33.77 Line "SEL-3"



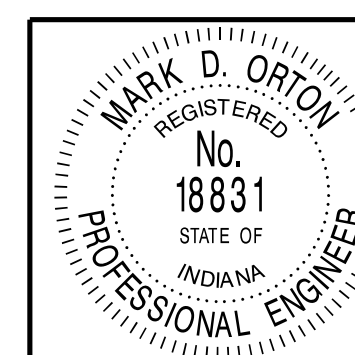
Northbound Lanes

PCCP Pavement Option
Sta. 1521+69.41 to Sta. 1522+22.07 Line "PR-A"
Sta. 1522+82.45 to Sta. 1523+43.34 Line "PR-A"
Sta. 1524+98.01 to Sta. 1525+48.86 Line "PR-A"

I-69 Special Fill Section

Not to Scale

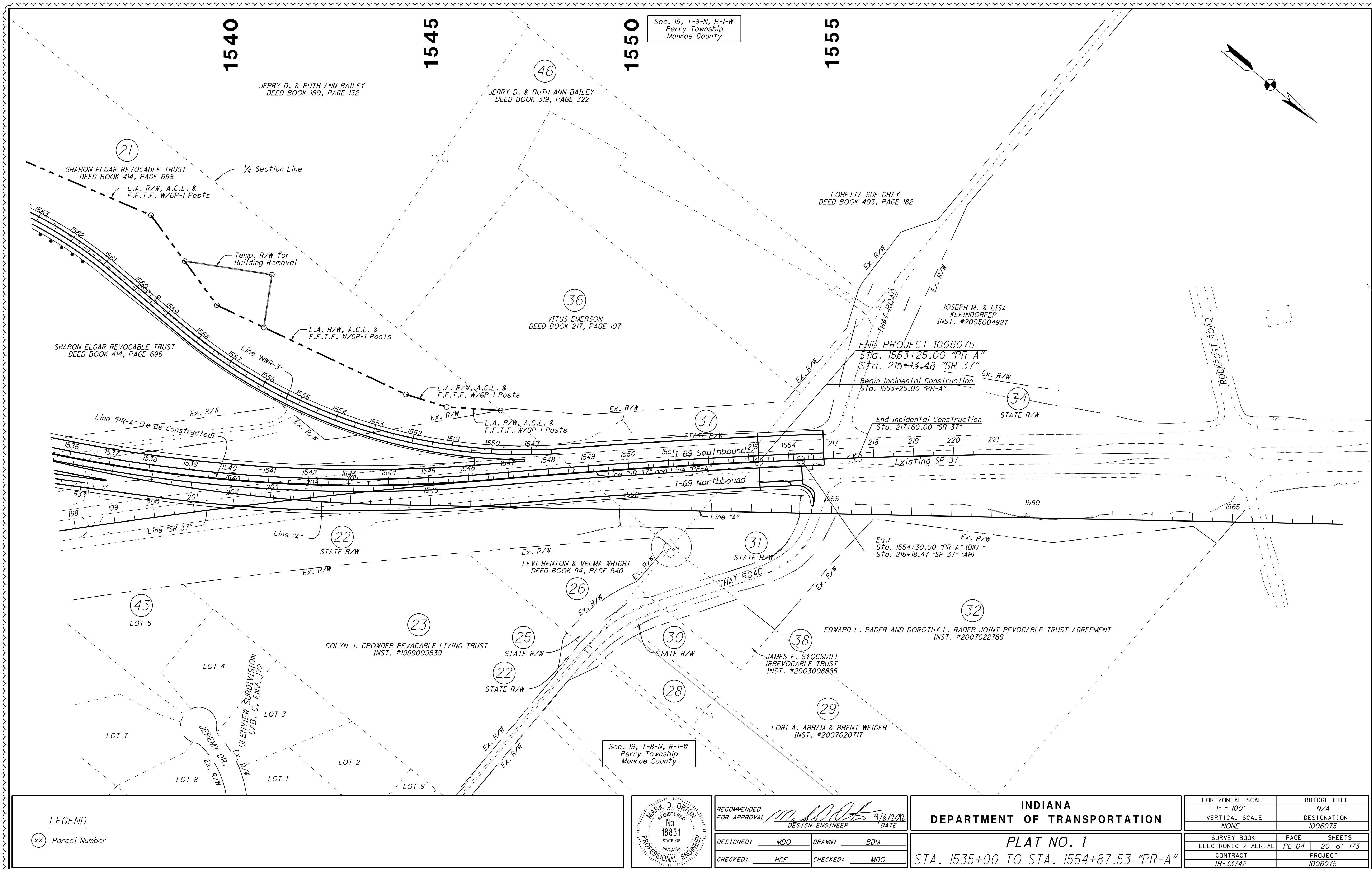
- (A1) OC/OA, 10.5" on Subbase For PCCP
10'-1 Joints @ 15' O.C. w/1.5" Dia. Dowel Bars)
or
165 lbs/Sys OC/OA-HMA, 4, 76, Surface, 9.5 mm on
275 lbs/Sys OC/OA-HMA, 4, 76, Intermediate, 19.0 mm on
330 lbs/Sys OC/OA-HMA, 4, 64, Base, 19.0 mm on
250 lbs/Sys OC/OA-HMA, 5, 76, Intermediate, OG 19.0 mm on
385 lbs/Sys OC/OA-HMA, 4, 64, Base, 19.0 mm
- (J) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on
330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on
6" Compacted Aggregate, No. 53, Base
- (J1) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on
495 lbs/Sys OC/OA-HMA, 1, 64, Base 25.0 mm, on
7" Compacted Aggregate, No. 53, Base
- (J2) Compacted Aggregate, No. 53, Variable Depth
- (J3) 165 lbs/Sys OC/OA-HMA, 1, 64, Surface 9.5 mm, on
330 lbs/Sys OC/OA-HMA, 1, 64, Intermediate 19.0 mm, on
660 lbs/Sys HMA, Base, Type "D"
- (T1) Subgrade Treatment
Type 1A: Shall Be Used In Embankment And
Natural Soil Or Non-Durable Rock Cut Areas
Type 1C: Shall Be Used In Rock Cut Areas
(See Geotechnical Report For Approximate Locations)
- (U) 6" Underdrain Pipe
- (Y) Longitudinal Joint
- (10) Guardrail, W-Beam, 6'-3" Spa.
- (26) Sodding
- (27) Seeding, R



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: K&H	
CHECKED: HCF	CHECKED: MDO	

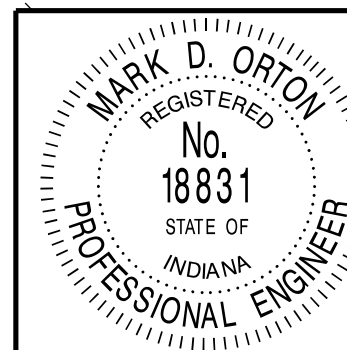
INDIANA DEPARTMENT OF TRANSPORTATION	
TYPICAL SECTIONS	
MISCELLANEOUS DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
AS NOTED	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	7Y-07
CONTRACT	SHEETS
IR-33742	16 of 173
	PROJECT
	1006075



LEGEND

xx Parcel Number



RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER
DATE 9/6/10

DESIGNED: MDO

DRAWN: BDM

CHECKED: HCF

CHECKED: MDO

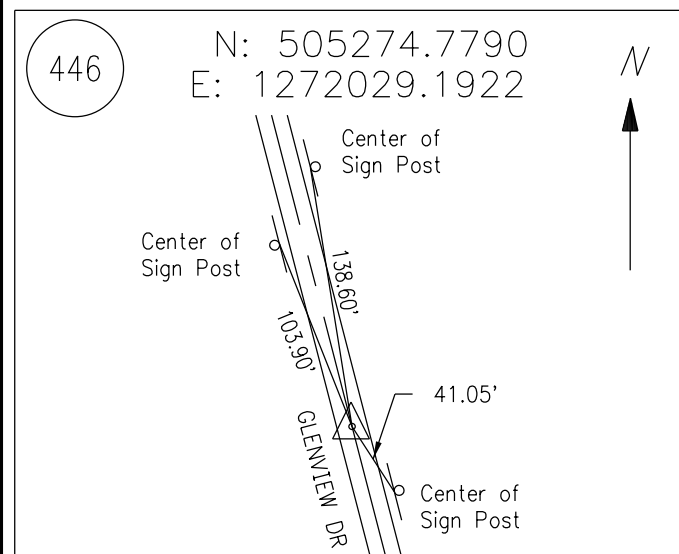
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1
STA. 1535+00 TO STA. 1554+87.53 "PR-A"

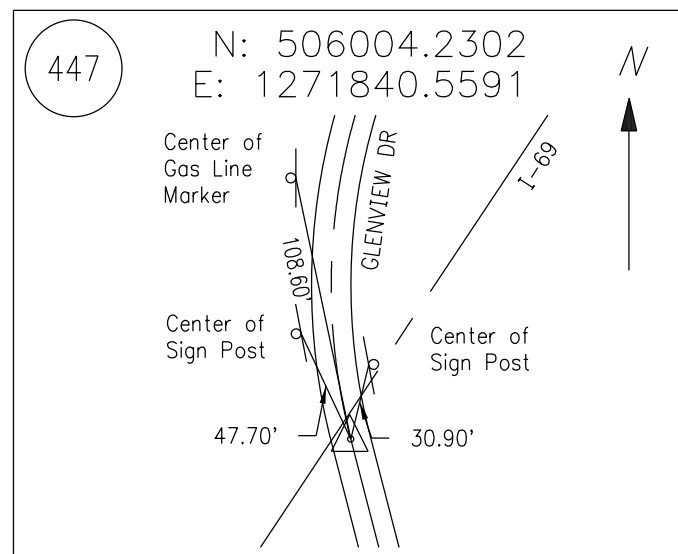
HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PL-04
CONTRACT IR-33742	SHEETS 20 of 173
	PROJECT 1006075

BASELINE CONTROL POINTS

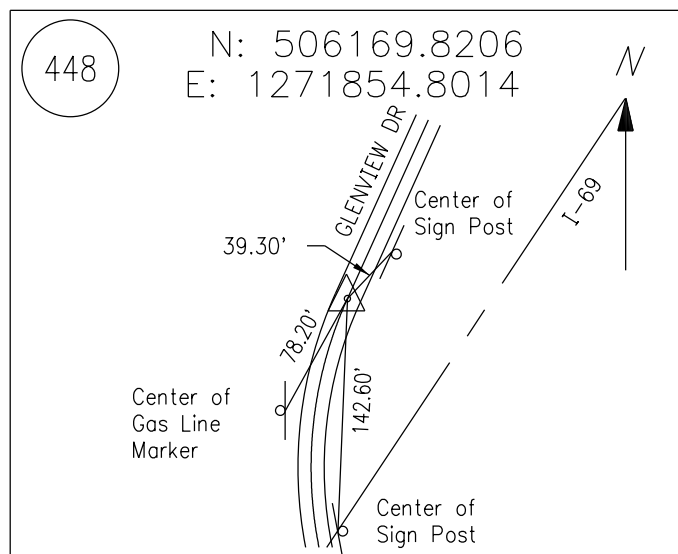
BENCHMARK DATA



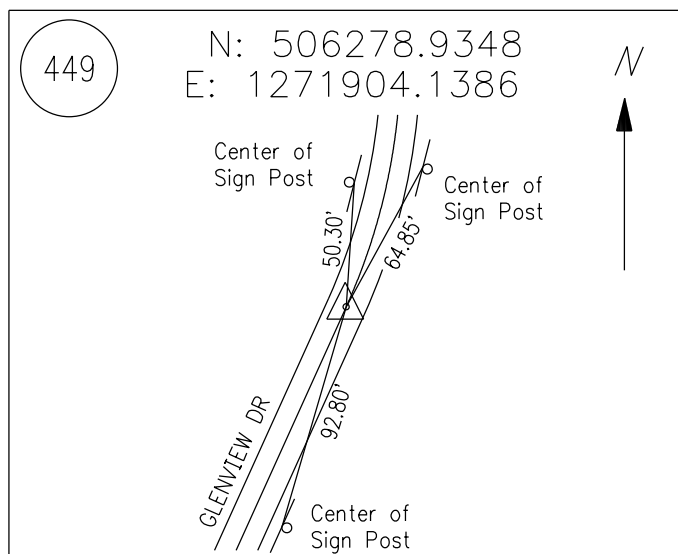
MAG NAIL w/WASHER SET
P.O.T. STA. 0+00.00 LINE "GLENVIEW DR"



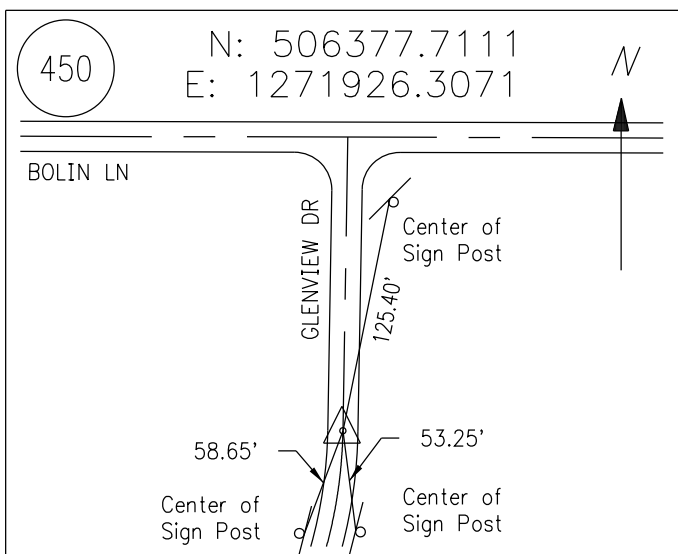
MAG NAIL w/WASHER SET
P.C. STA. 7+53.45 LINE "GLENVIEW DR"



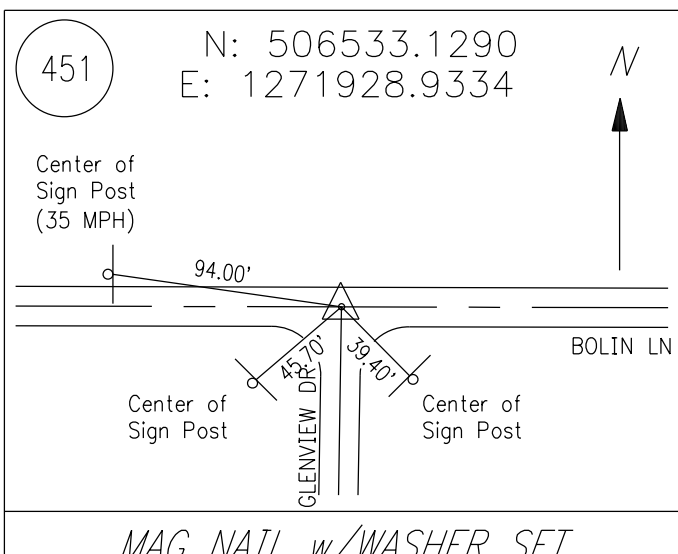
MAG NAIL w/WASHER SET
P.T. STA. 9+22.87 LINE "GLENVIEW DR"



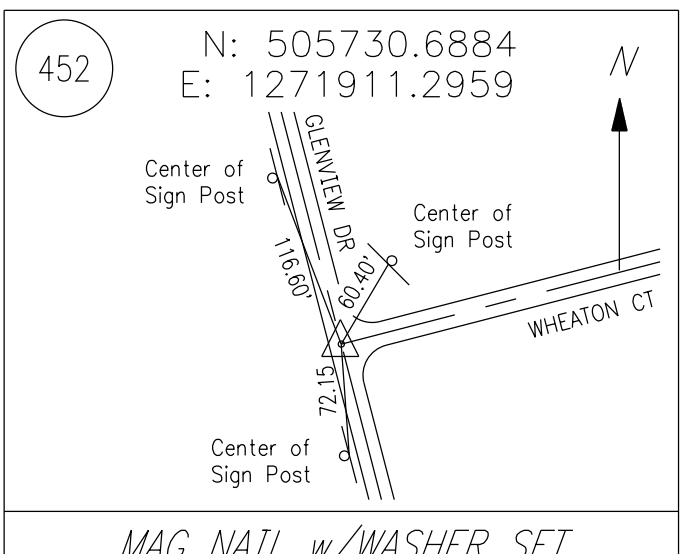
MAG NAIL w/WASHER SET
P.C. STA. 10+42.62 LINE "GLENVIEW DR"



MAG NAIL w/WASHER SET
P.T. STA. 11+44.56 LINE "GLENVIEW DR"

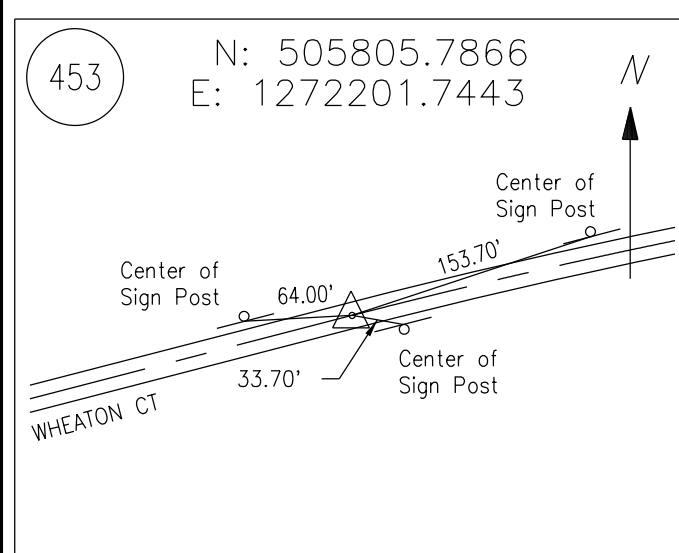


MAG NAIL w/WASHER SET
EQ: P.O.T. STA. 17+44.67 LINE "BOLIN LN"=
P.O.T. STA. 13+00.00 LINE "GLENVIEW DR"

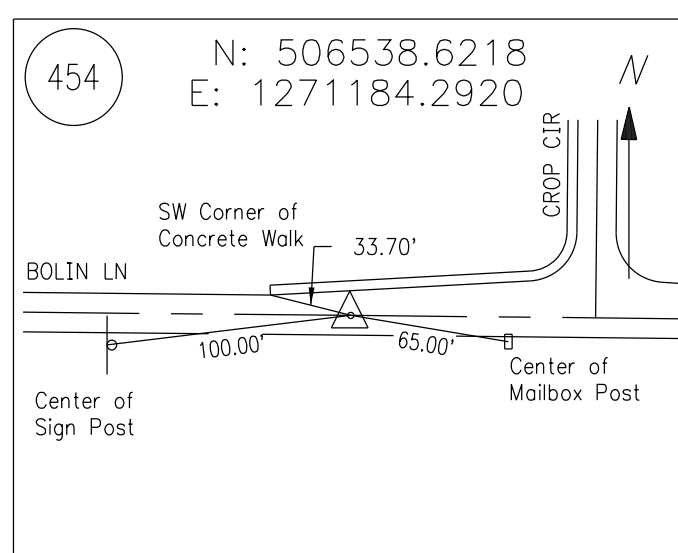


MAG NAIL w/WASHER SET
EQ: P.O.T. STA. 4+70.91 LINE "GLENVIEW DR"=
P.O.T. STA. 0+00.00 LINE "WHEATON CT"

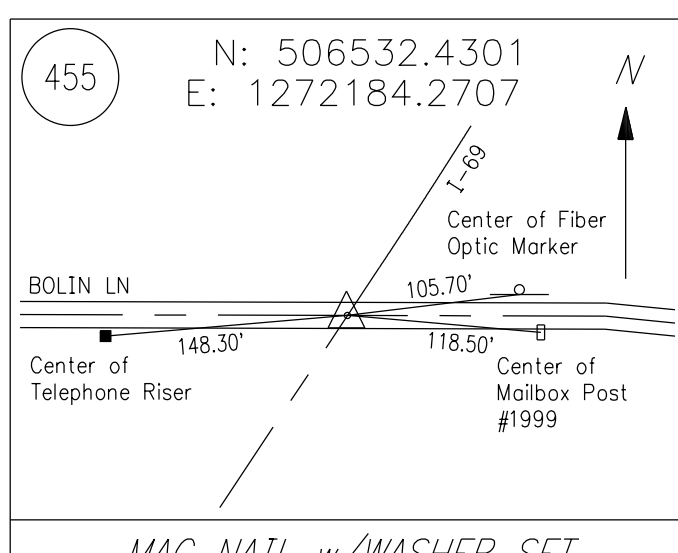
BM#	STATION	OFFSET	LINE	NORTHING	EASTING	ELEVATION
BLA #64						716.080
BLA- ALUMINUM MONUMENT JUST SOUTHEASTERLY OF VICTOR PIKE IN GRASS MEDIAN OF S.R. 37						
TBM 1	217+17.04	59.6075	SR 37	512065.8437	1271281.55	772.745
RAILROAD SPIKE SET IN SHOULDER OF NORTH BOUND LANE OF S.R. 37 ON WEST SIDE AND 50 NORTH OF THE CENTERLINE OF THAT ROAD						
TBM #9003						761.425
MAG NAIL IN PWP (NO NUMBER) SOUTH SIDE KOONTZ RD ACROSS FROM HOUSE #5714						
TBM# 9004						688.432
BOAT SPIKE FOUND IN THE NORTHEAST FACE OF A POWER POLE (#159-362) 1.0' ABOVE GRADE, LOCTED 25' WEST OF THE INTERSECTION OF DILLMAN ROAD AND VICTOR PIKE, 1.0' SOUTH OF THE CENTERLINE OF A GRAVEL DRIVE AND 0.7' MILES WEST OF THE CENTERLINE OF DILLMAN ROAD/S.R. 37						
TBM# 9005						607.963
CUT "A" ON THE NORTHEAST CORNER OF A CONCRETE CASTING OF A DROP INLET DRAIN, LOCATED 35' WEST OF THE CENTERLINE OF VICTOR PIKE, 15 NORTH OF THE BACK OF CURB OF INTERSECTION OF VICTOR PIKE AND TRAMWAY ROAD THE SOUTH ENTRANCE TO STONE MILL,						
TBM# 9006	10+89.63	-26.7818	BOLIN LANE	506564.7417	1271274.1174	660.2791
CUT " " IN THE SOUTHEAST CORNER OF A CONCRETE CULVERT, LOCATED 20' NORTH OF THE CENTERLINE OF BOLIN LANE AND 2000' WEST OF THE INTERSECTION OF VICTOR PIKE AND BOLIN LANE						
TBM 9077	198+20.85	-236.1524	SR 37	510495.6128	1272399.7871	762.369
BOAT SPIKE SET IN THE EAST FACE OF A POWER POLE (#763-037) 0.5' ABOVE GRADE, LOCATED 50' WEST OF THE CENTERLINE OF BIG SKY LANE AND 150' WEST OF THE INTERSECTION OF S.R. 37 AND BIG SKY LANE.						
TBM 9500						655.240
CUT " " IN THE NORTHWEST CORNER OF ELECTRIC BOX #25 (2038) AT SOUTHWEST CORNER OF WHEATON COURT & GLENVIEW DRIVE						



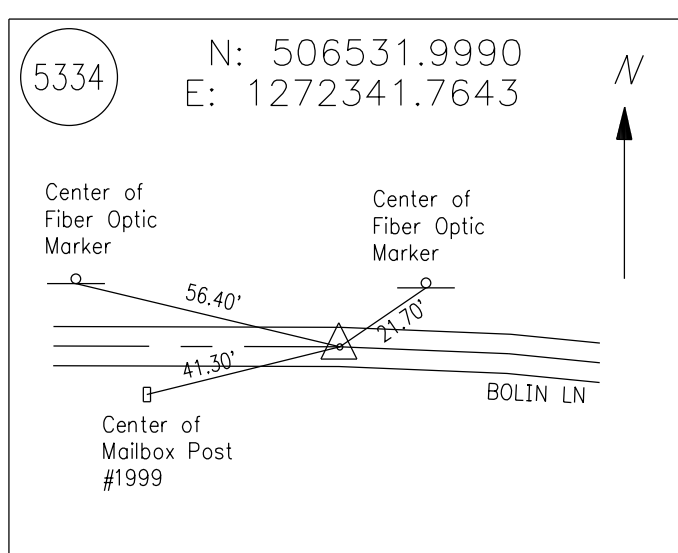
MAG NAIL w/WASHER SET
P.O.T. STA. 3+00.00 LINE "WHEATON CT"



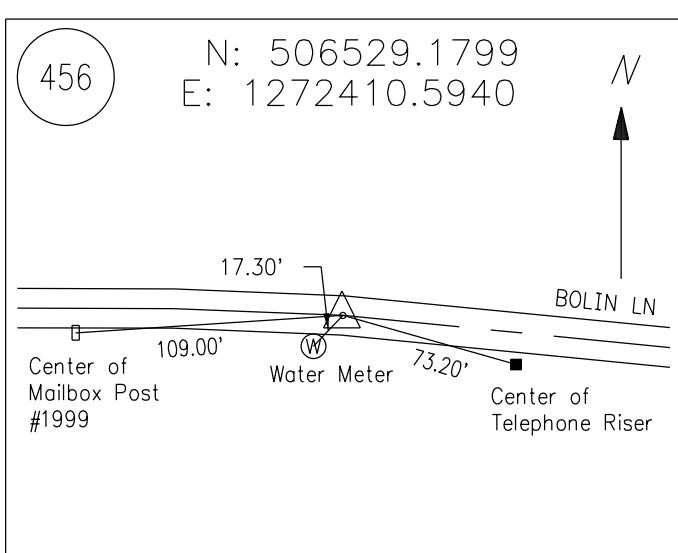
MAG NAIL w/WASHER SET
P.O.T. STA. 10+00.00 LINE "BOLIN LN"



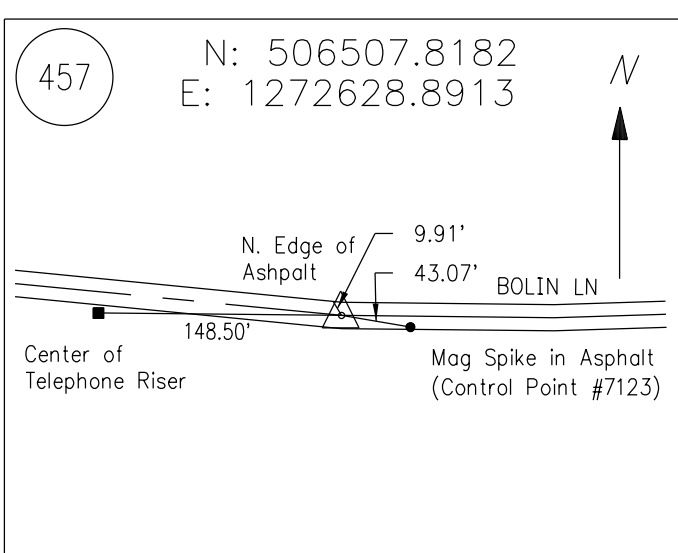
MAG NAIL w/WASHER SET
EQ: P.O.T. STA. 1493+78.63 LINE "A"=
P.O.T. STA. 20+00.00 LINE "BOLIN LN"



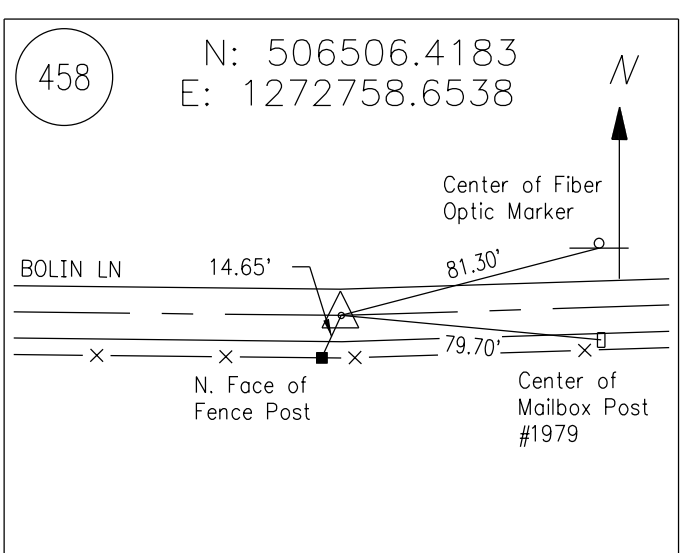
RAILROAD SPIKE FOUND
P.I. STA. 21+57.50 LINE "BOLIN LN"



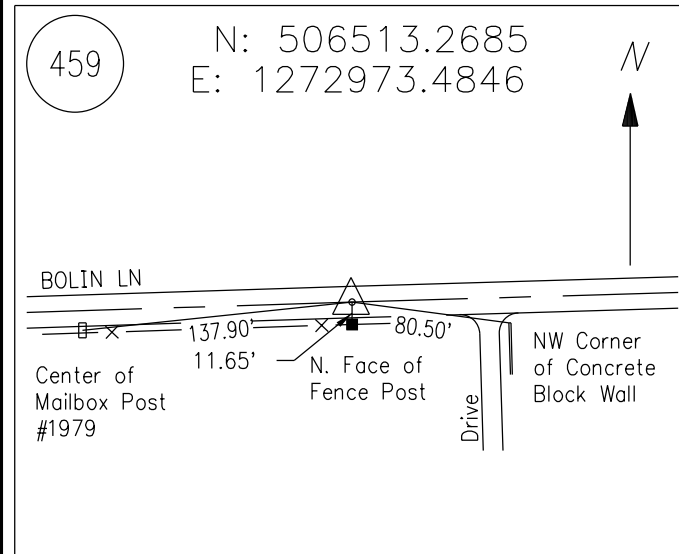
MAG NAIL w/WASHER SET
P.I. STA. 22+26.39 LINE "BOLIN LN"



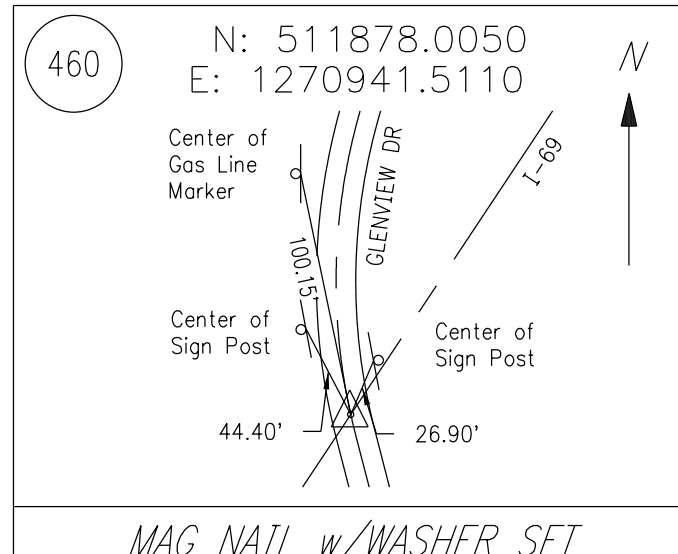
MAG NAIL w/WASHER SET
P.I. STA. 24+45.73 LINE "BOLIN LN"



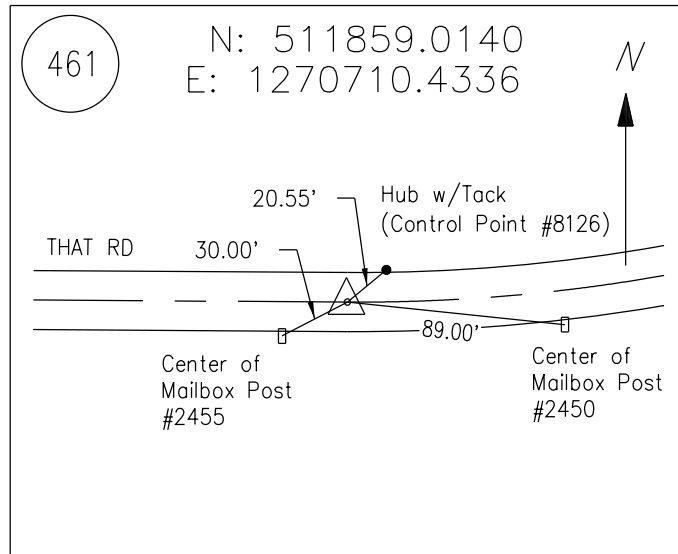
MAG NAIL w/WASHER FOUND
P.I. STA. 25+75.50 LINE "BOLIN LN"



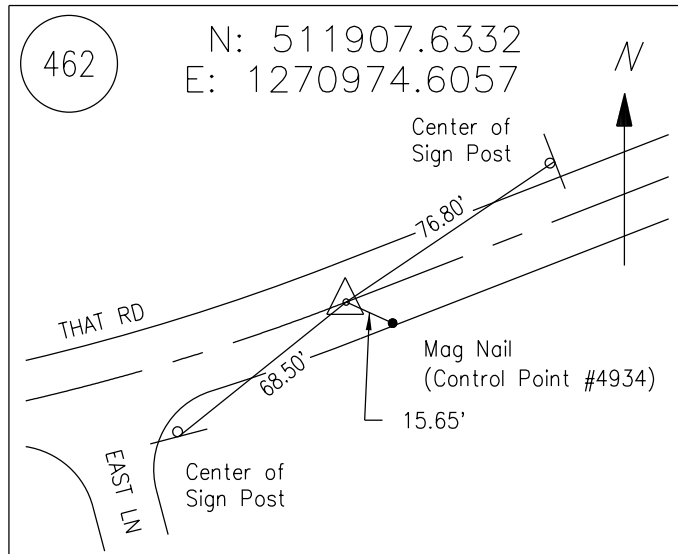
MAG NAIL w/WASHER SET
P.I. STA. 27+90.94 LINE "BOLIN LN"



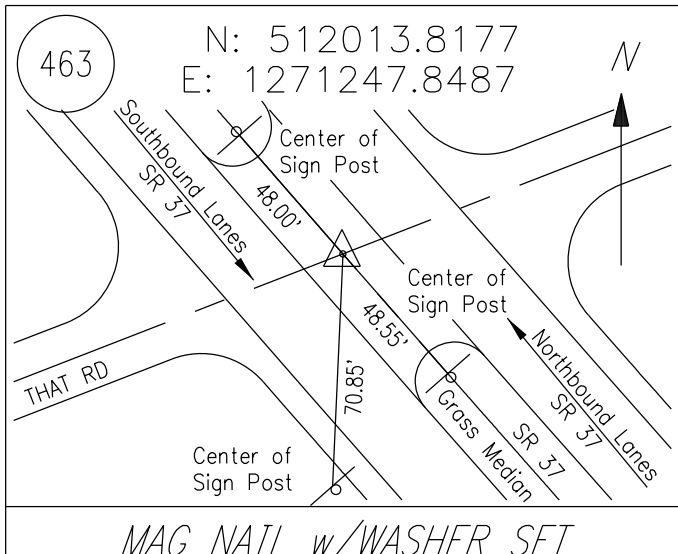
MAG NAIL w/WASHER SET
EQ: P.O.T. STA. 1487+54.27 LINE "A"=
P.O.C. STA. 7+61.96 LINE "GLENVIEW DR"



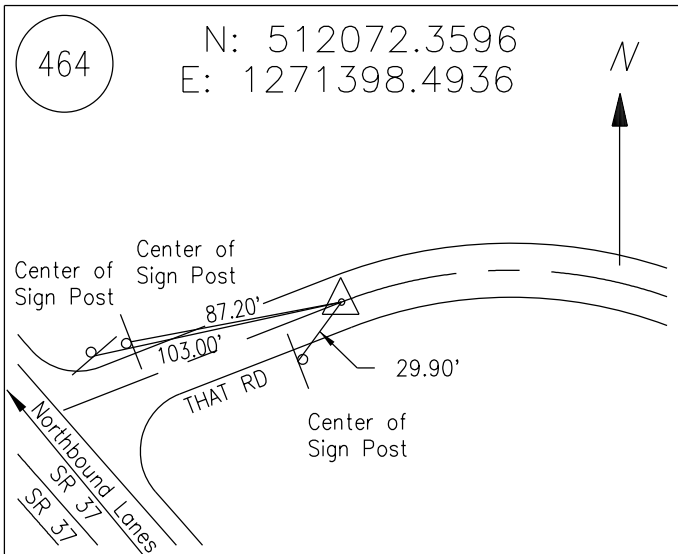
MAG NAIL w/WASHER SET
P.C. STA. 44+10.63 LINE "THAT RD"



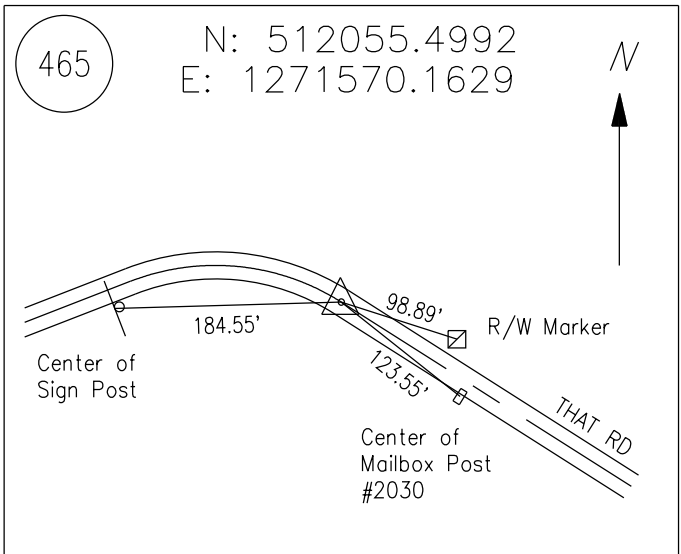
MAG NAIL w/WASHER SET
P.T. STA. 46+80.84 LINE "THAT RD"



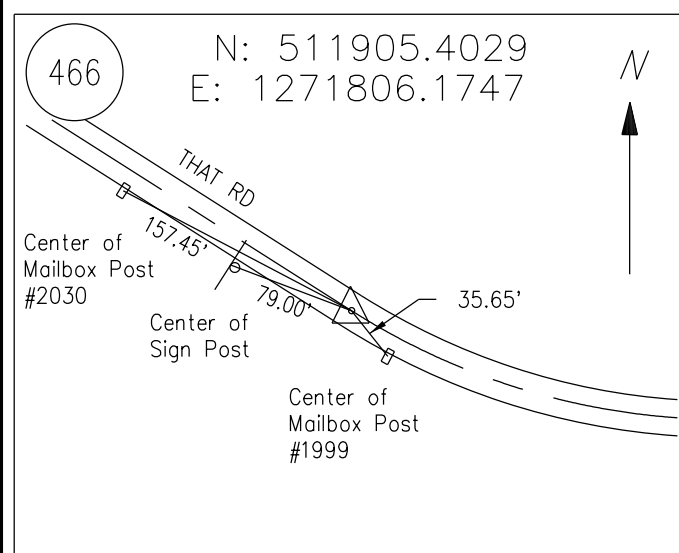
MAG NAIL w/WASHER SET
EQ: P.O.C. STA. 217+00.00 LINE "SR 37" =
P.O.T. STA. 49+73.99 LINE "THAT RD"



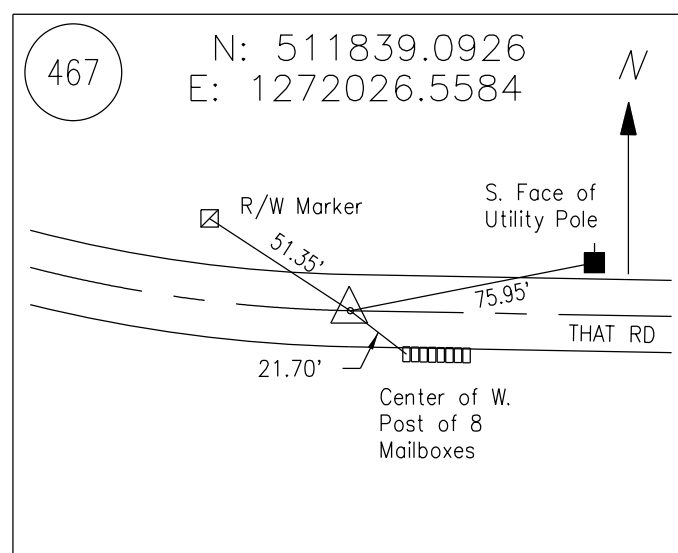
MAG NAIL w/WASHER SET
P.C. STA. 51+35.61 LINE "THAT RD"



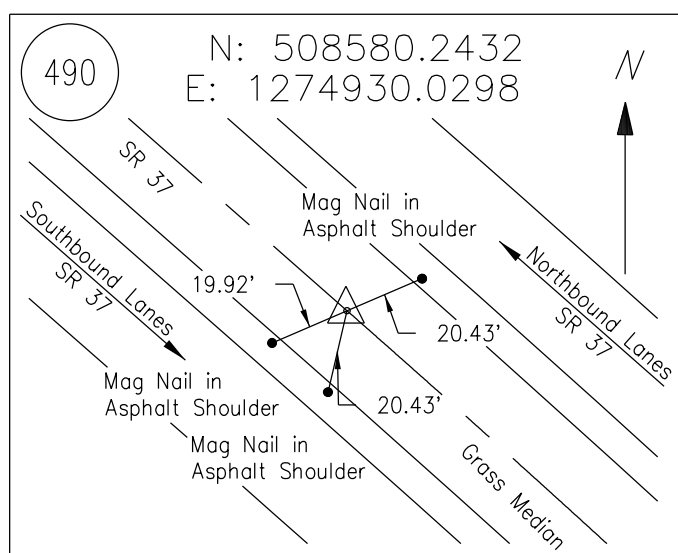
MAG NAIL w/WASHER SET
P.T. STA. 53+15.19 LINE "THAT RD"



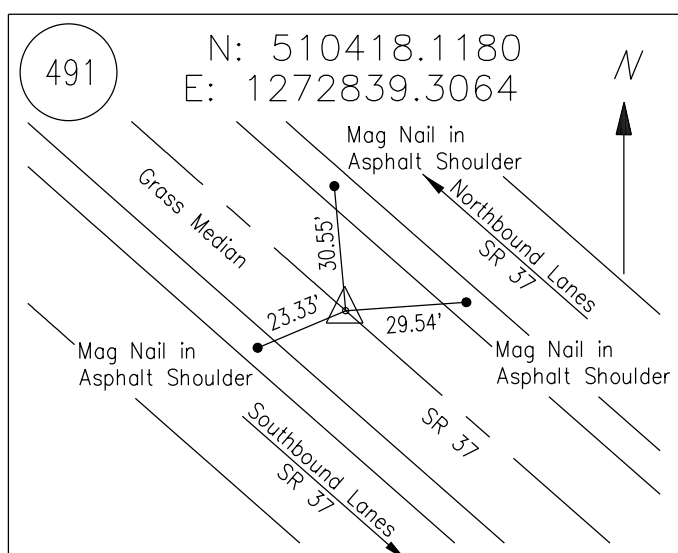
MAG NAIL w/WASHER SET
P.C. STA. 55+94.20 LINE "THAT RD"



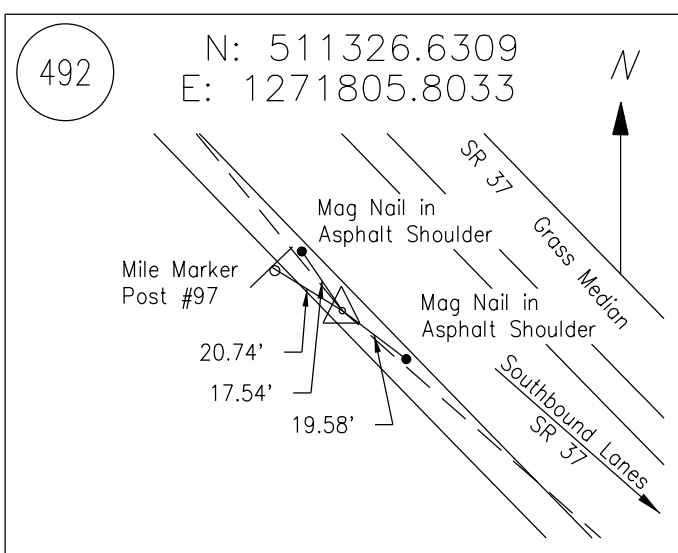
MAG NAIL w/WASHER SET
P.T. STA. 58+28.43 LINE "THAT RD"



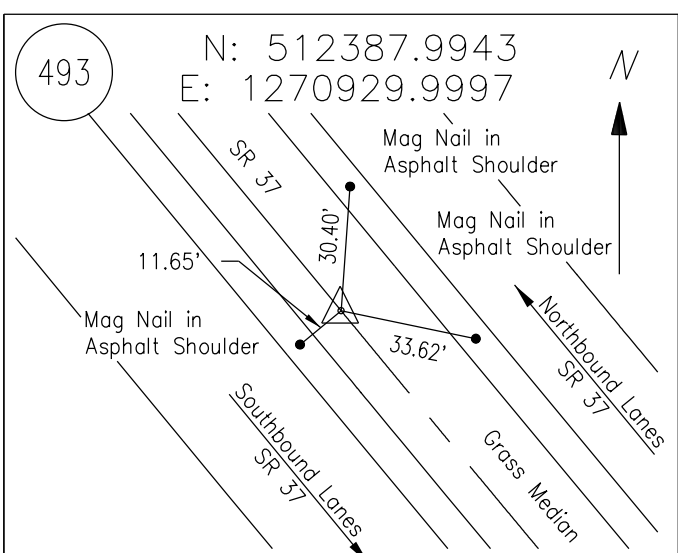
1" Ø REBAR FOUND
P.T. STA. 166+61.04 LINE "SR 37"



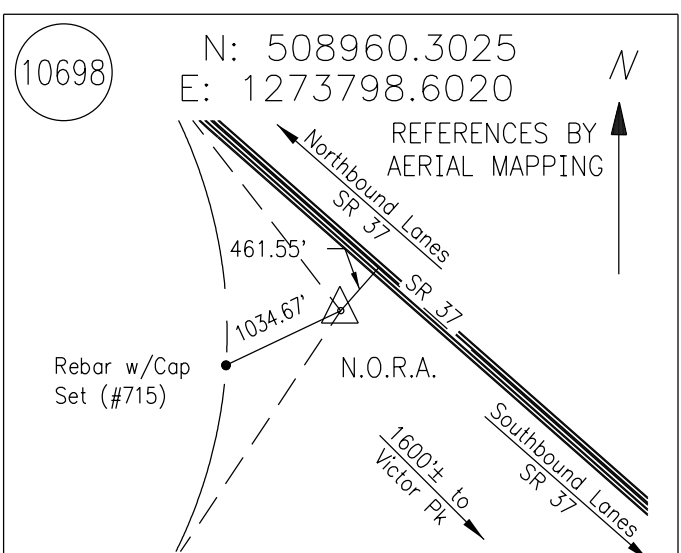
BRASS MONUMENT IN CONCRETE
P.C. STA. 194+44.72 LINE "SR 37"



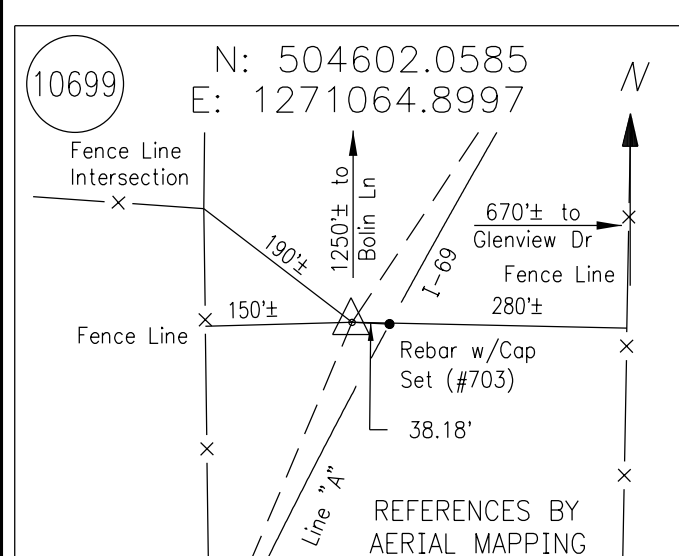
BRASS MONUMENT IN CONCRETE
P.I. STA. 208+20.78 LINE "SR 37"



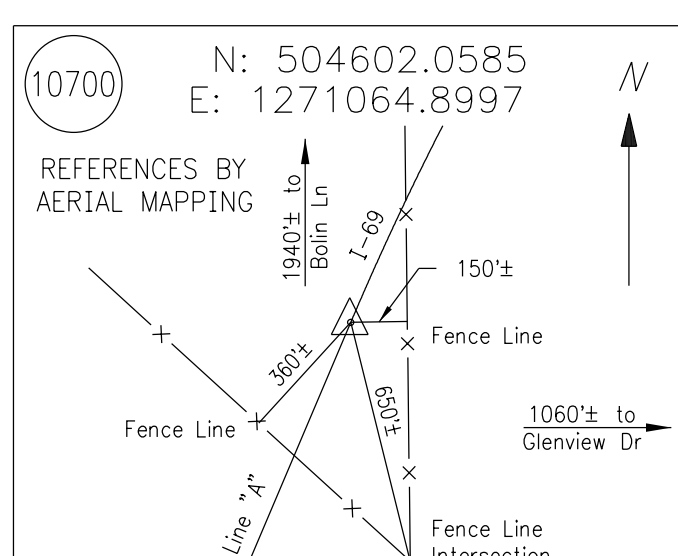
BRASS MONUMENT IN CONCRETE
P.T. STA. 221+90.07 LINE "SR 37"



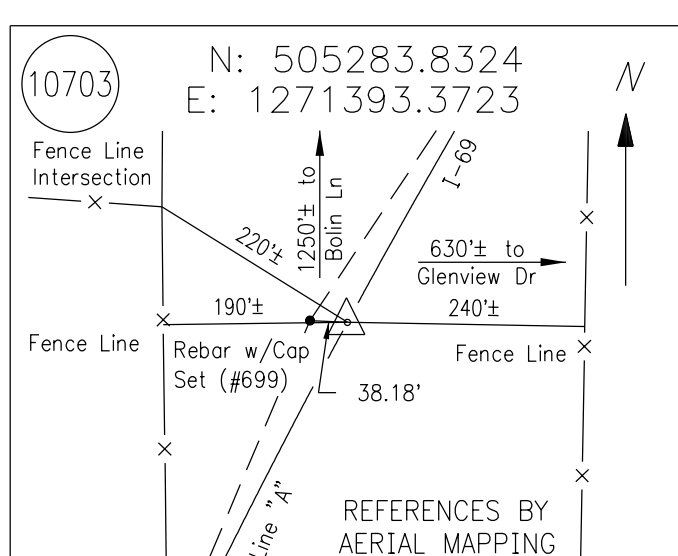
REBAR w/CAP SET
P.I. STA. 1522+94.22 LINE "A"



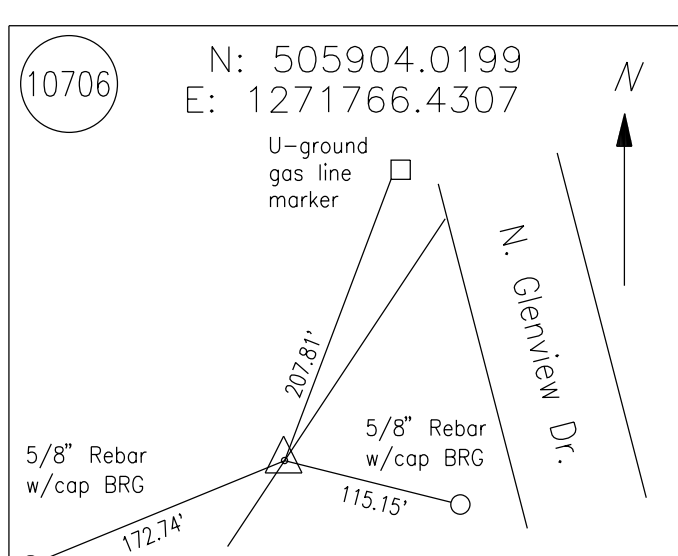
REBAR w/CAP SET
P.I. STA. 1478+85.59 LINE "A"



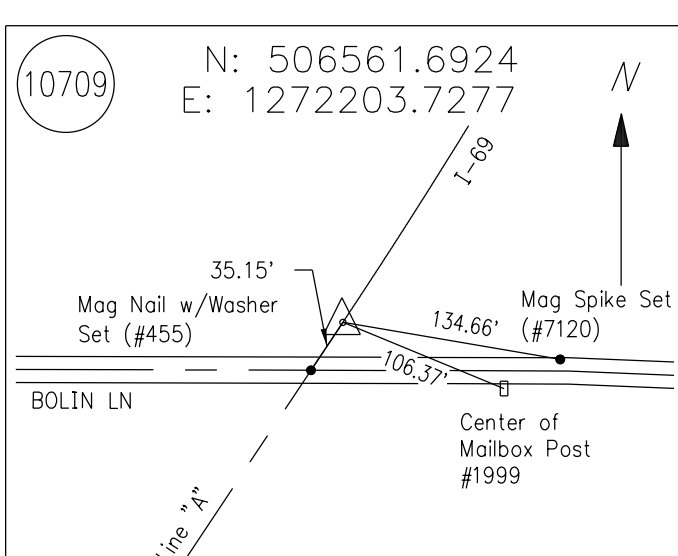
REBAR w/CAP SET
P.C. STA. 1471+42.94 LINE "A"



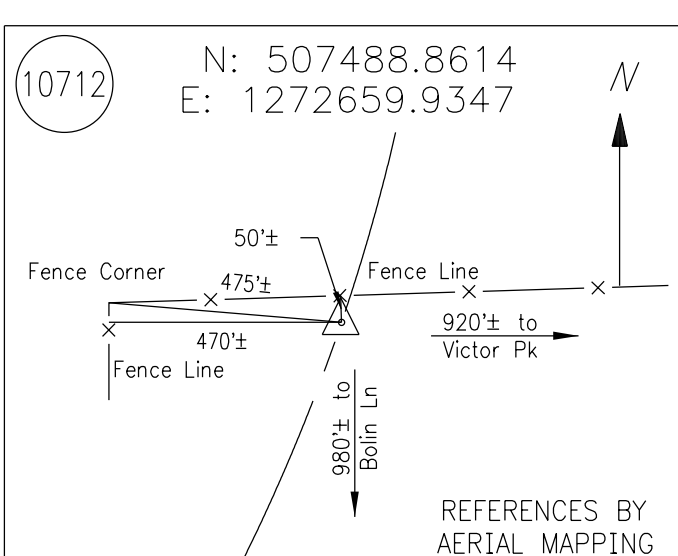
REBAR w/CAP SET
P.O.C. STA. 1479+00.00 LINE "A"



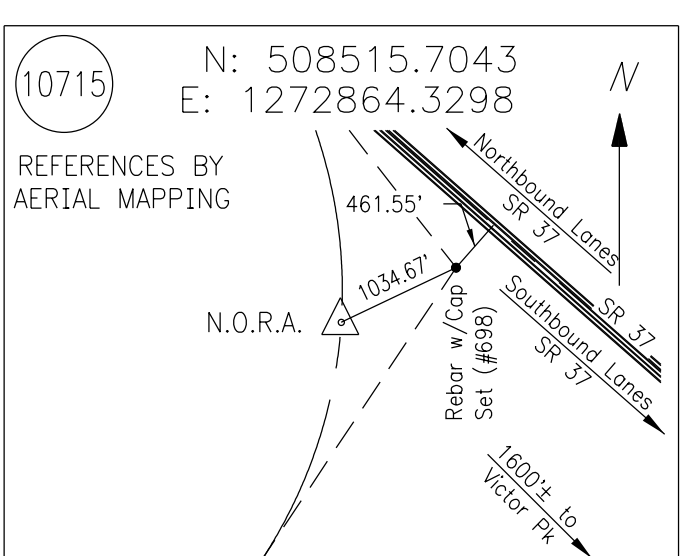
REBAR w/CAP SET
P.T. STA. 1486+23.99 LINE "A"



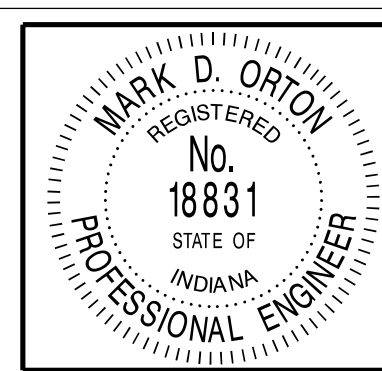
REBAR w/CAP SET
P.C. STA. 1494+13.78 LINE "A"



REBAR w/CAP SET
P.O.C. STA. 1504+50.00 LINE "A"



REBAR w/CAP SET
P.O.C. STA. 1515+00.00 LINE "A"



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

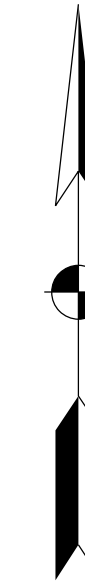
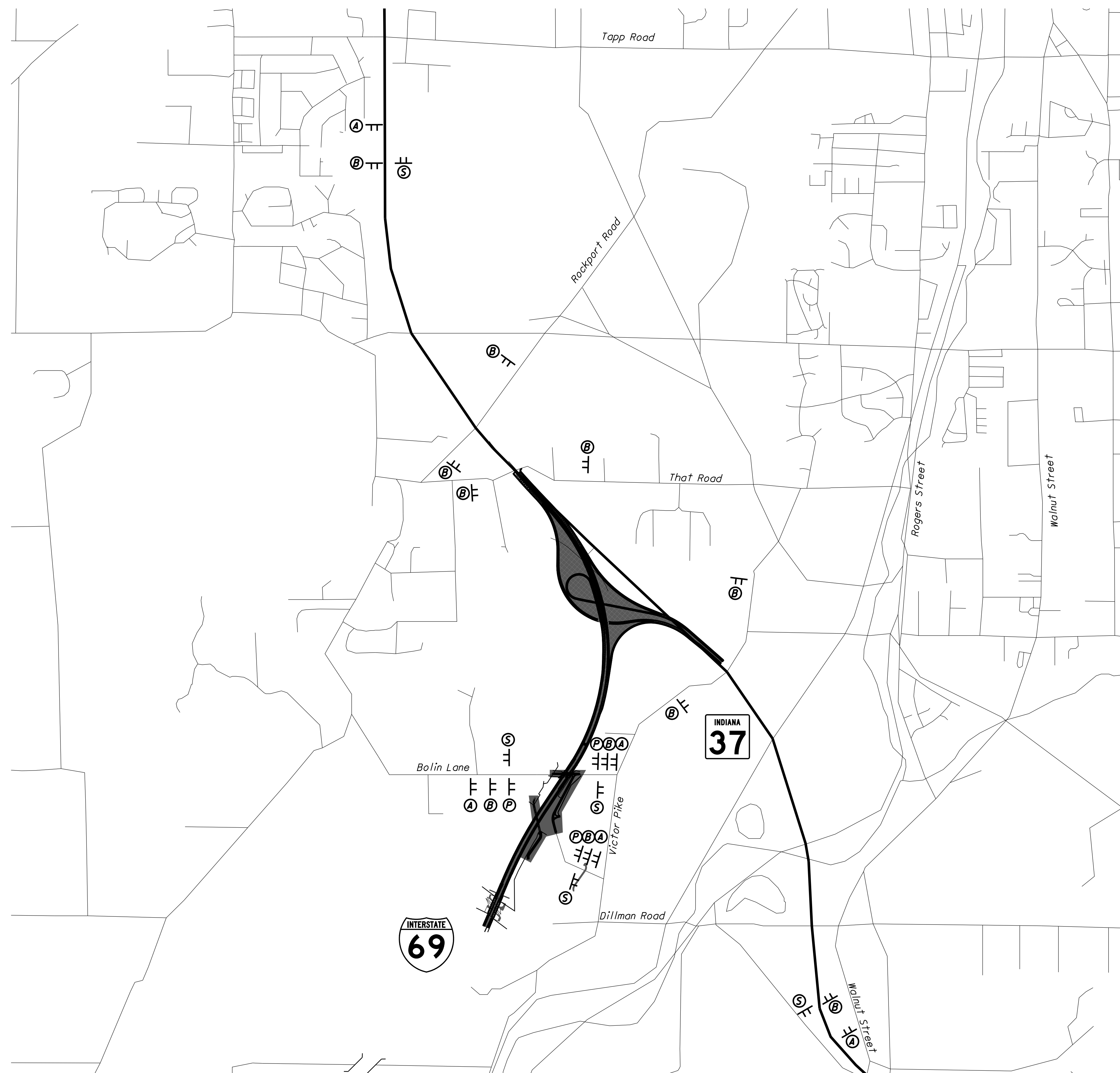
DESIGNED: MDO DRAWN: BDM
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

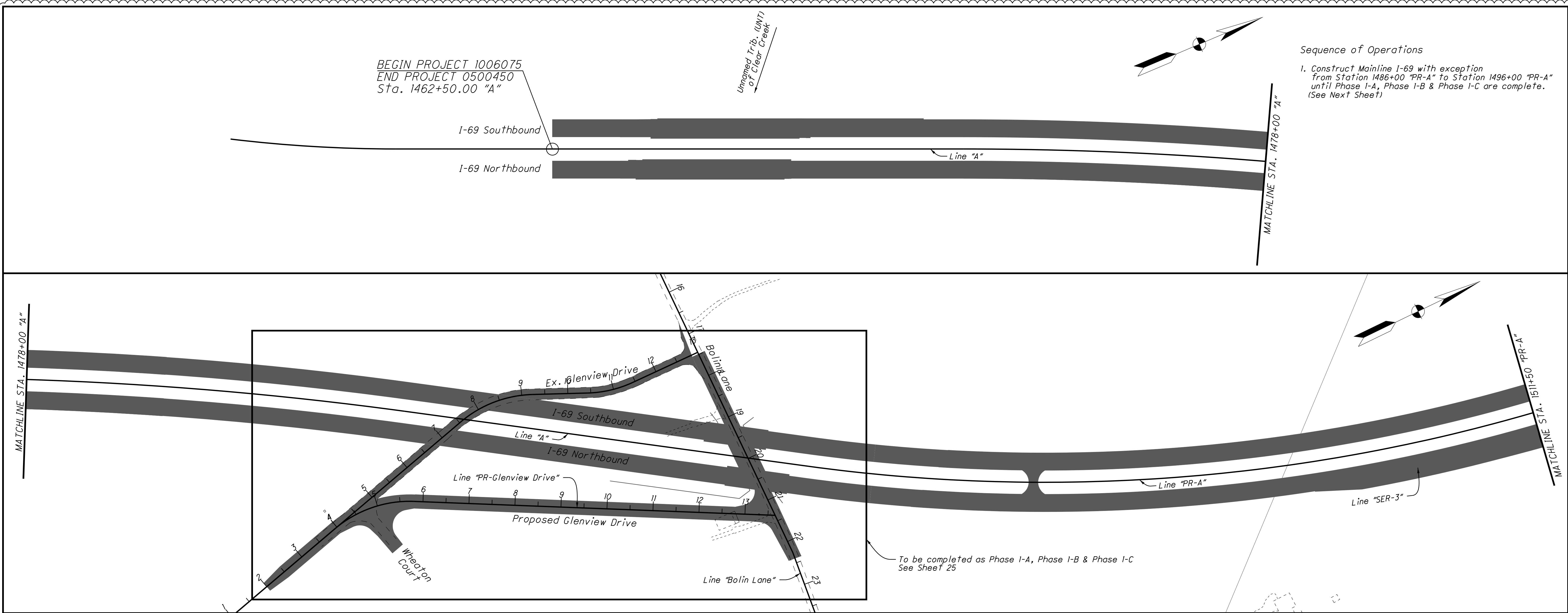
BASELINE CONTROL REFERENCE
AND BENCHMARK INFORMATION

HORIZONTAL SCALE	BRIDGE FILE
NONE	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	CP-01
CONTRACT	21 of 173
IR-33742	PROJECT
	1006075

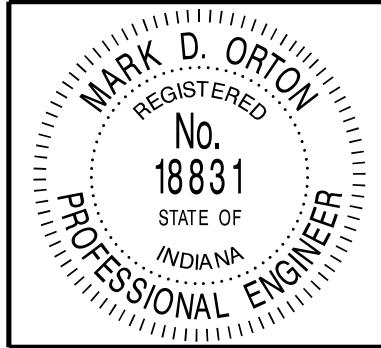
DATE: 10/1/2012
TIME: 10:41:20 AM
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\562750RD\CP01_A2.dgn

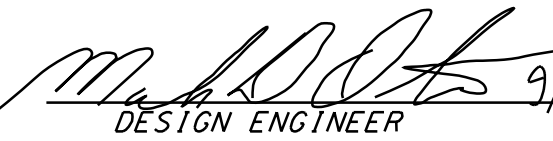


DATE: 10/1/2012
TIME: 10:41:26 AM
LOCATION: I-69 SOUTHBOUND VETERANS MEMORIAL BRIDGE, I-69 SOUTHBOUND VETERANS MEMORIAL BRIDGE, I-69 SOUTHBOUND VETERANS MEMORIAL BRIDGE



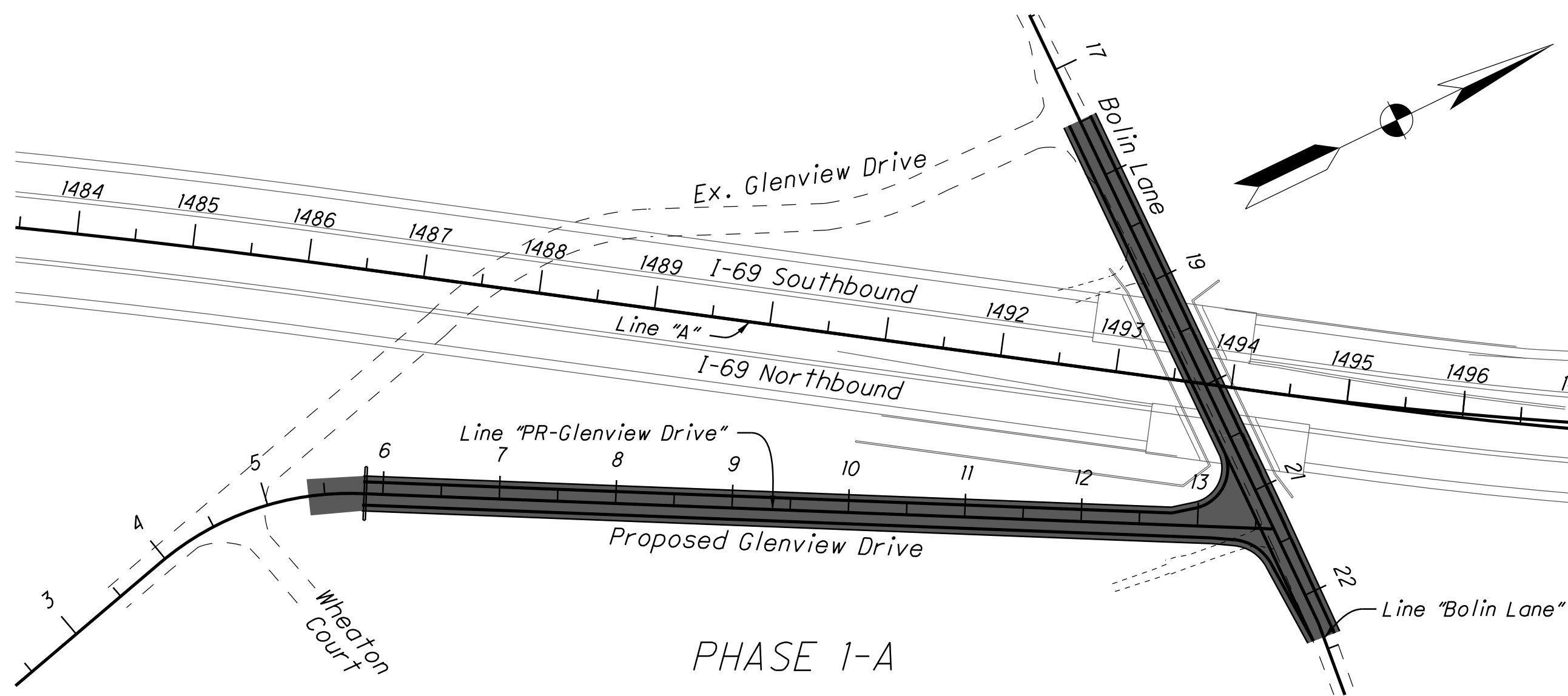
	Area under construction
---	-------------------------



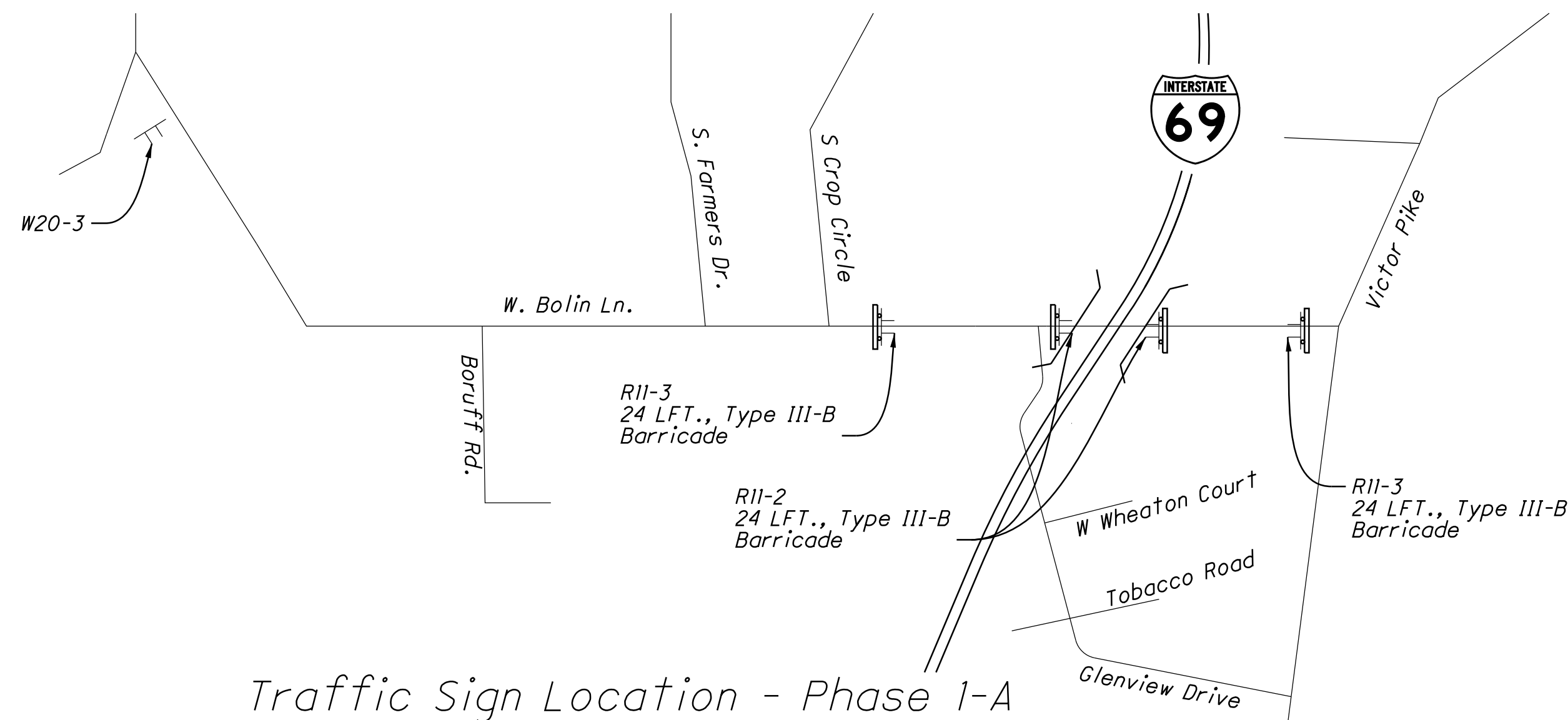
RECOMMENDED FOR APPROVAL		9/6/10	DATE
DESIGNED:	MDO	DRAWN:	KCH
CHECKED:	HCF	CHECKED:	MDO

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 1

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-03
CONTRACT IR-33742	SHEETS 24 of 173
	PROJECT 1006075

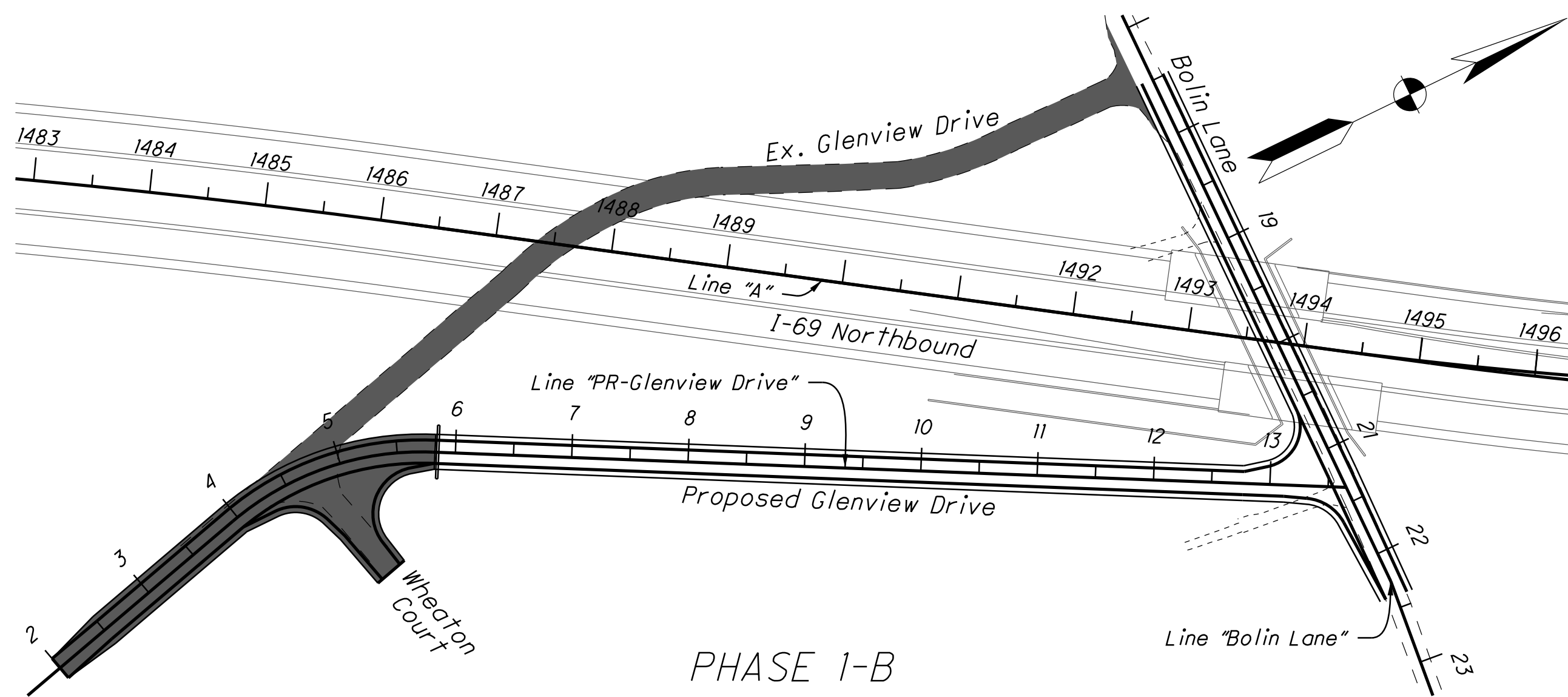


PHASE 1-A

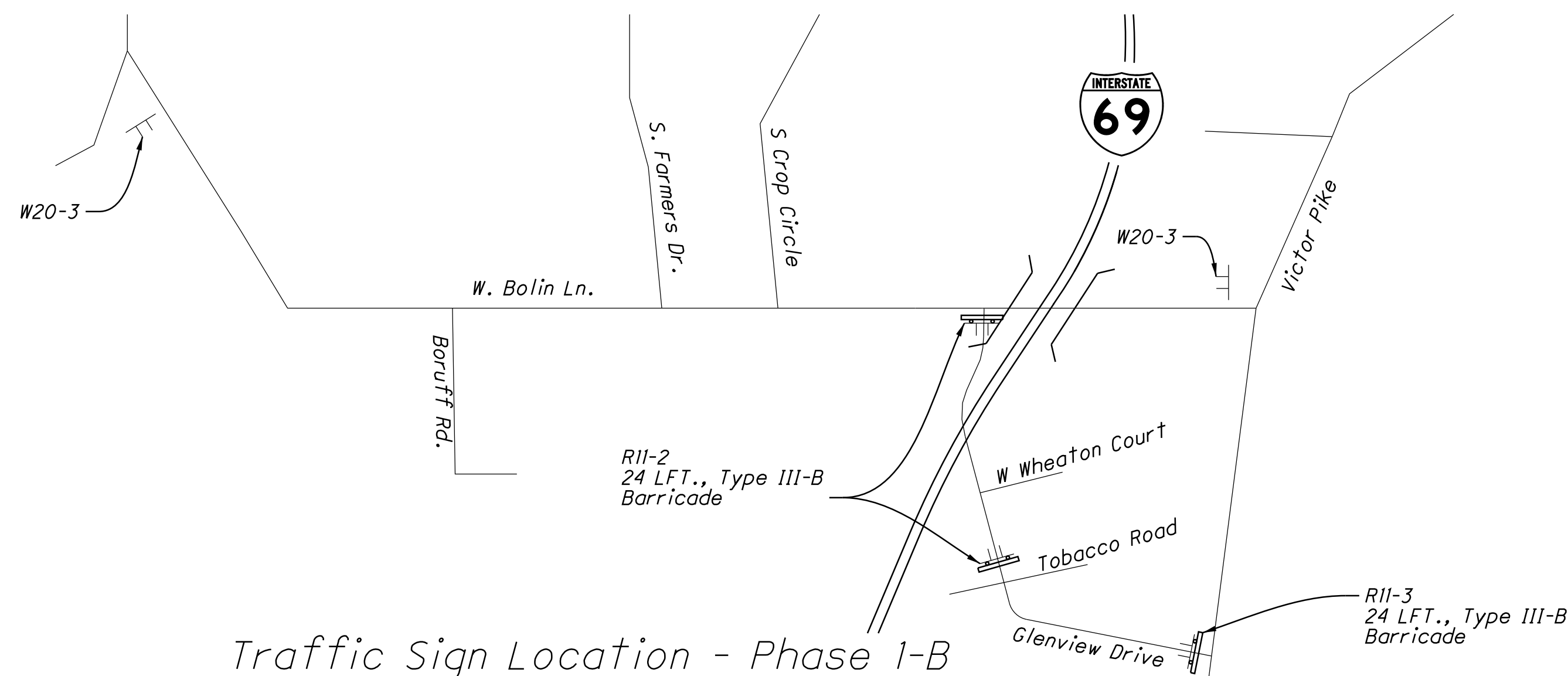


Traffic Sign Location - Phase 1-A

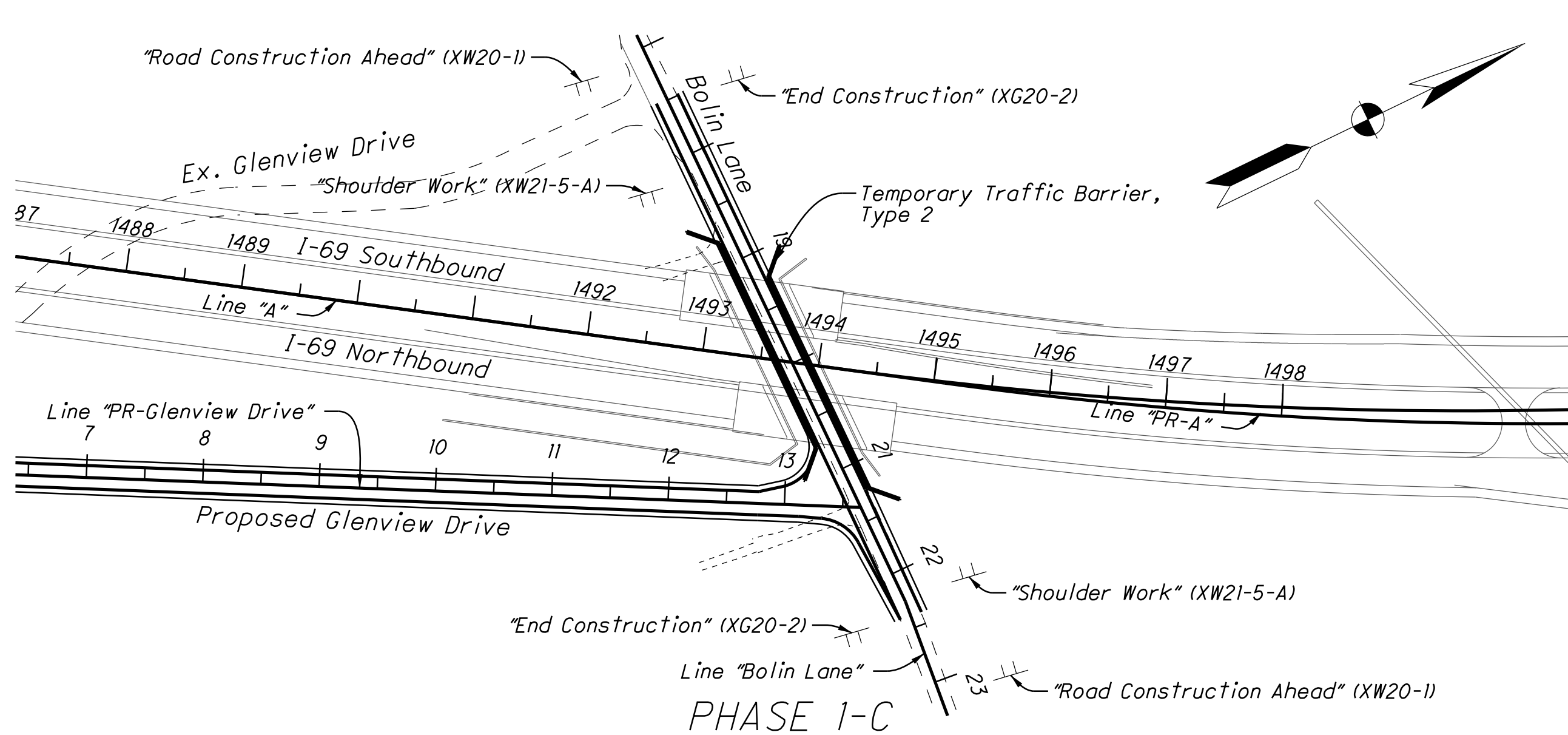
- Sequence of Operations
1. Construct Mainline I-69 with exception from Station 1486+00 "A" to Station 1496+00 "PR-A" until Phase 1-A, Phase 1-B & Phase 1-C are complete.
 2. Phase 1-A - Construct Bolin Lane and relocated Glenview Drive as shown below. Existing Glenview Drive shall remain operable.
 3. Phase 1-B - Complete Phase 1-A, open Bolin Lane, close and remove existing Glenview Drive, complete connection of Glenview Drive to proposed section. Wheaton Court to be Staged Construction.
 4. Phase 1-C - Install Signage and Temporary Traffic Barrier, Type 2 along Bolin as shown.



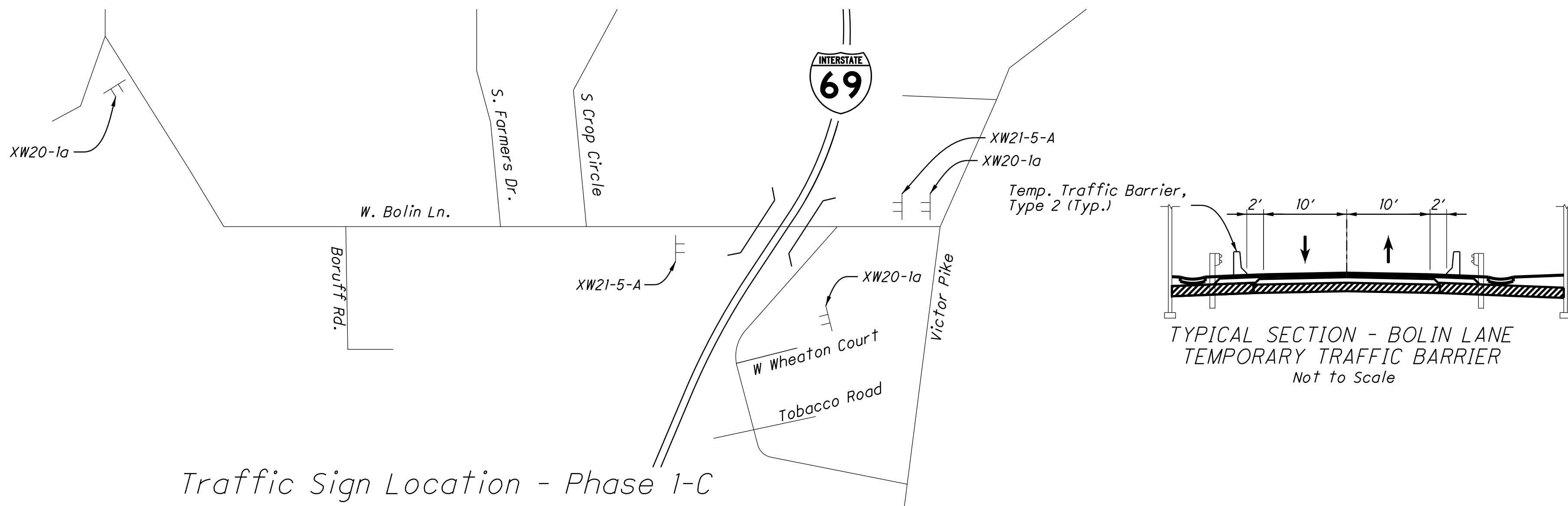
PHASE 1-B



Traffic Sign Location - Phase 1-B



PHASE 1-C



Traffic Sign Location - Phase 1-C

TYPICAL SECTION - BOLIN LANE
TEMPORARY TRAFFIC BARRIER
Not to Scale

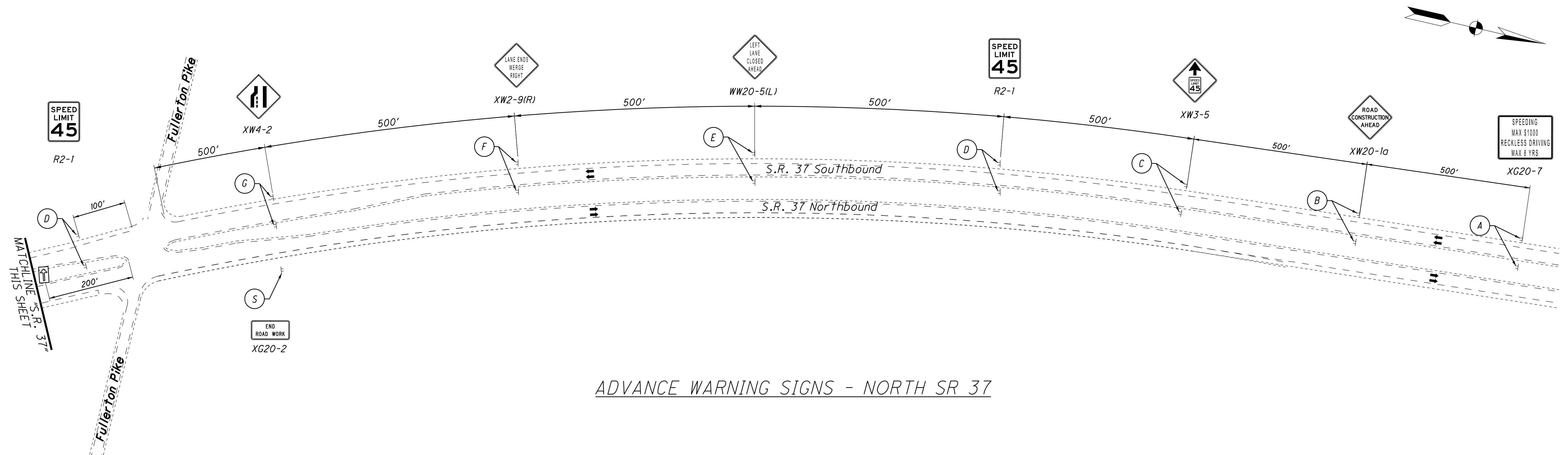
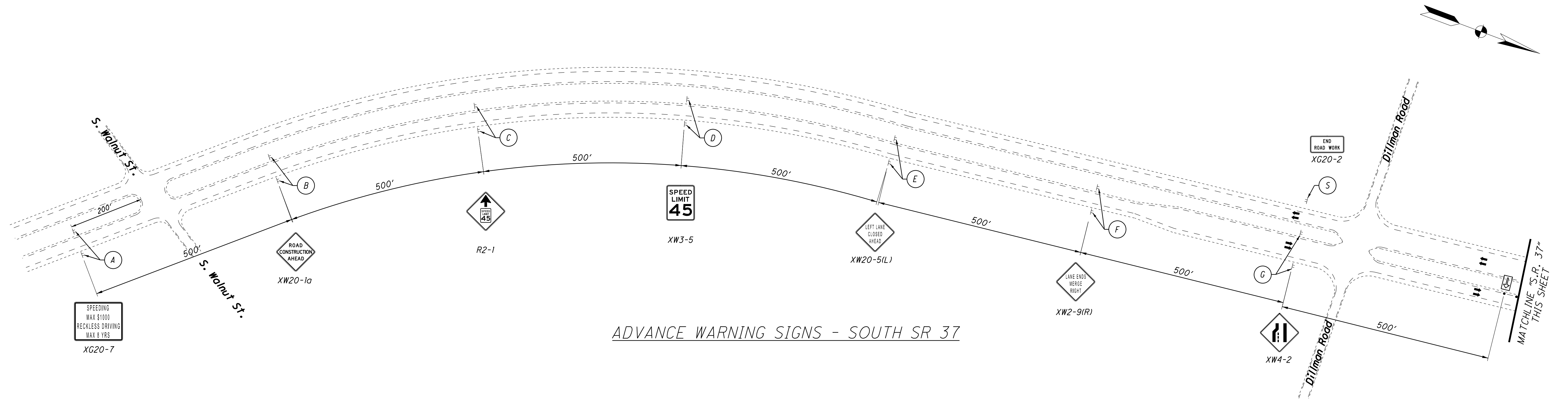
Area under construction

MARK D. ORTON
REGISTERED
No. 18831
STATE OF INDIANA
PROFESSIONAL ENGINEER

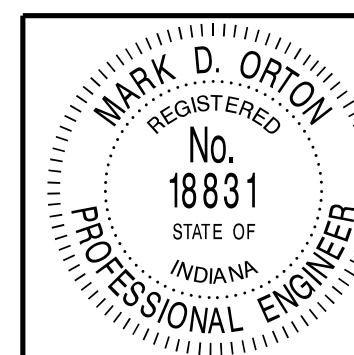
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE 9/6/10
DESIGNED: MDO
DRAWN: KCH
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
PHASE 1-A, PHASE 1-B, & PHASE 1-C

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-04
CONTRACT IR-33742	SHEETS 25 of 173
	PROJECT 1006075



DATE: 10/1/2012
TIME: 10:41:29 AM
LOCATION: SR 37



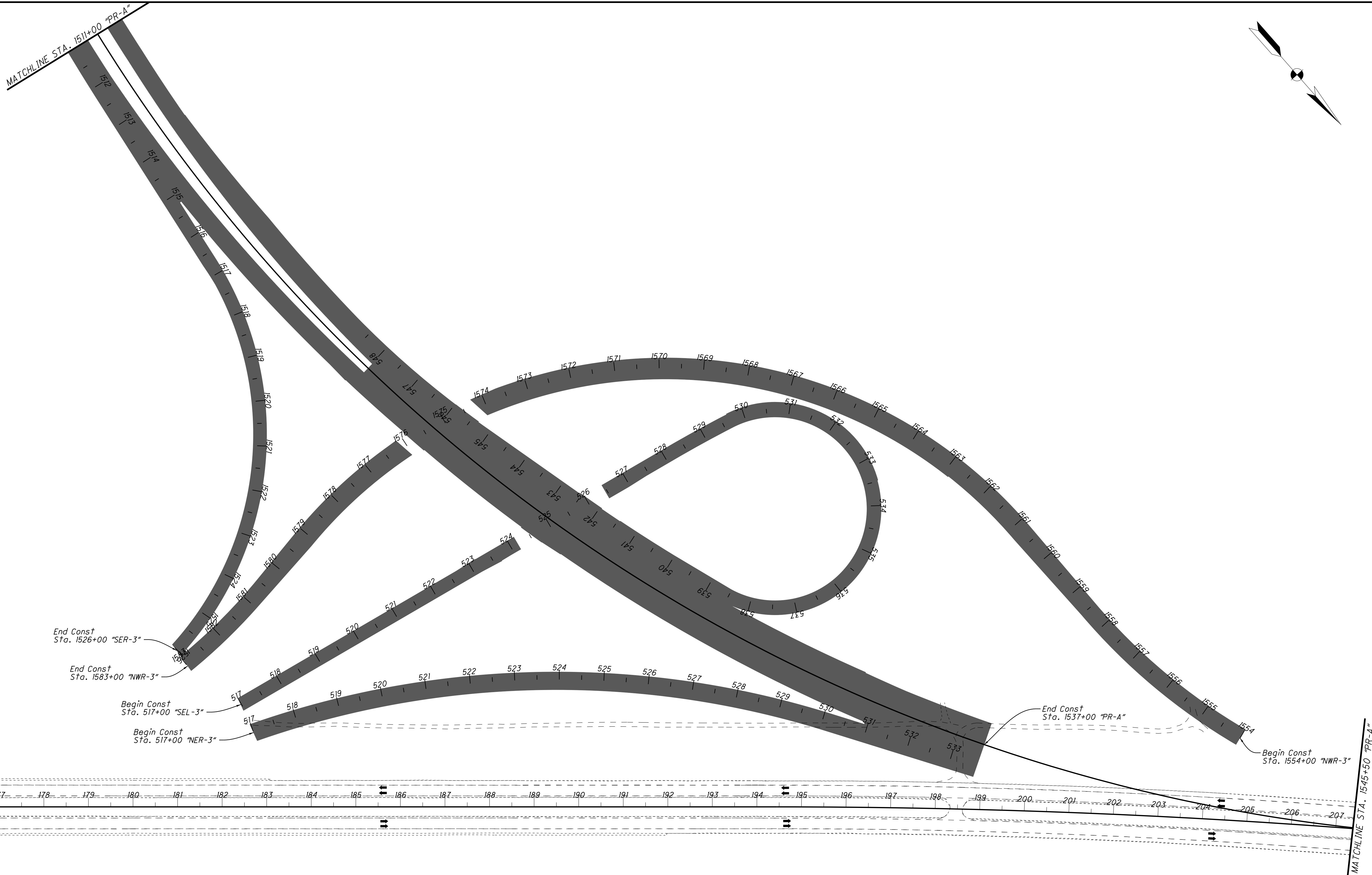
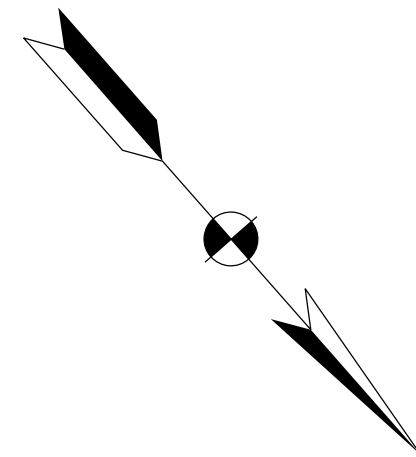
RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
ADVANCE WARNING SIGNS

HORIZONTAL SCALE NTS	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-05
CONTRACT IR-33742	SHEETS 26 of 173
	PROJECT 1006075



MATCHLINE STA. 174+50 "SR 37"

MATCHLINE STA. 1545+50 "PR-A"

Area under construction

MARK D. ORTON
REGISTERED
No. 18831
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER
DATE 9/6/10

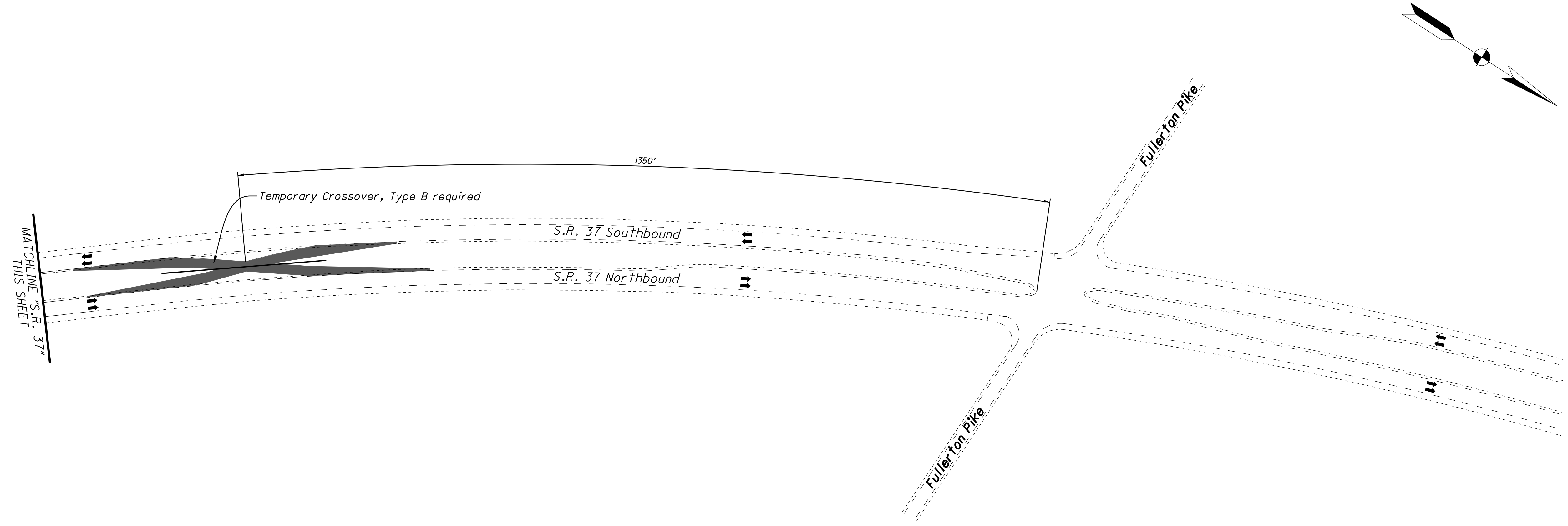
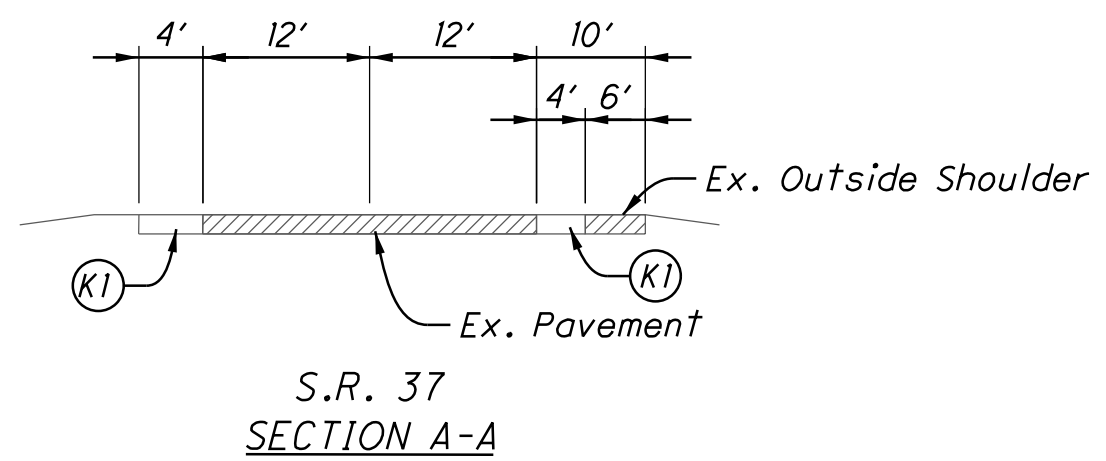
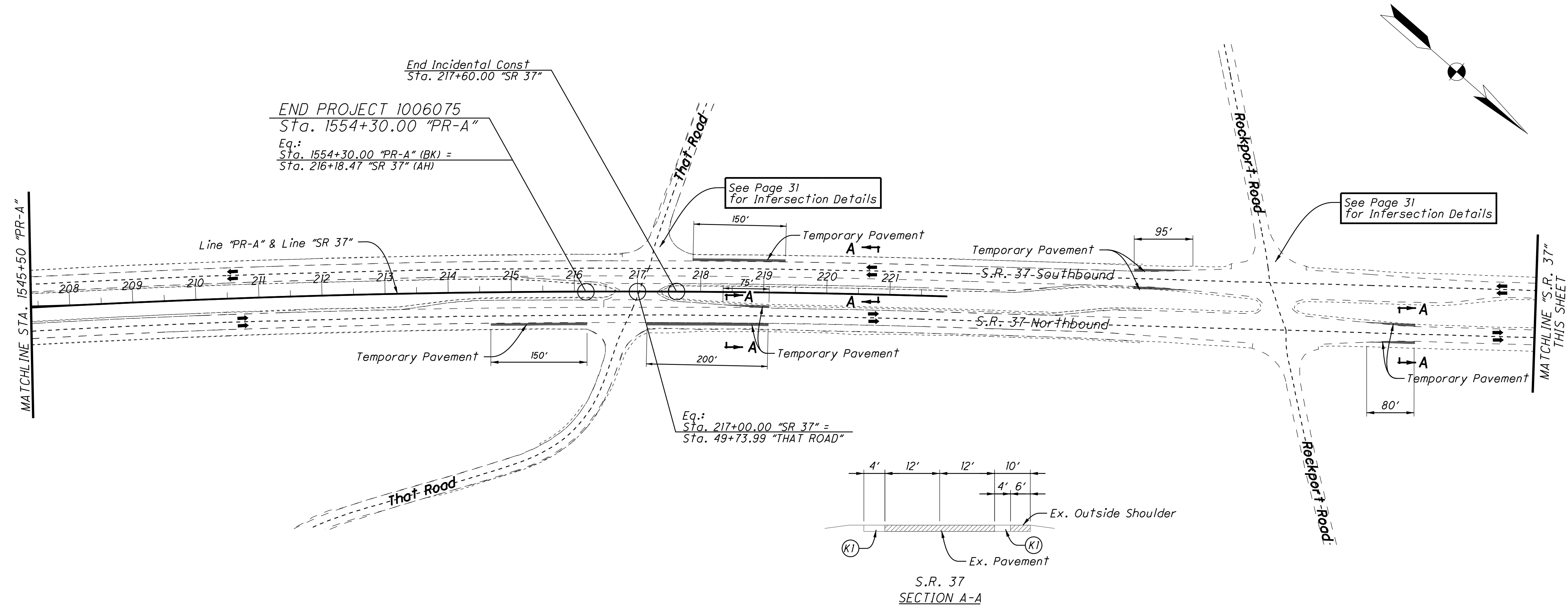
DESIGNED: MDO
DRAWN: KCH
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1

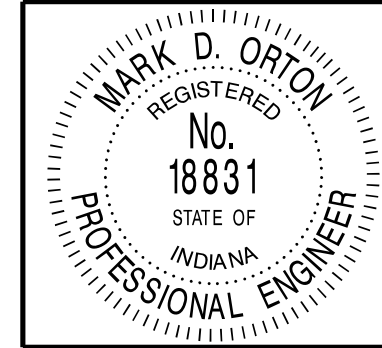
HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-07
CONTRACT IR-33742	SHEETS 28 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:41:31 AM
LOCATION: IR-33742



Area under construction

- (K1) 165 lb/yd2 HMA, Type B, Surface, on
- 275 lb/yd2 HMA, Type B, Intermediate, on
- 660 lb/yd2 HMA, Type B, Base, on
- Subgrade Treatment (Type 1C)



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
MAINTENANCE OF TRAFFIC	
PHASE 1	

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	MS-08
CONTRACT	PROJECT
IR-33742	1006075

DATE: 10/1/2012
TIME: 10:41:32 AM
C:\CADD\1006075\1006075.dwg

DATE: 10/1/2012
TIME: 10:41:33 AM
LOCATION: SR 37

PROJECT: SR 37
SHEET: 30 OF 173
CONTRACT: IR-33742

09/25/12 - Miscellaneous revisions

Area under construction

Existing Traffic Signal Head

Temporary Traffic Signal Head

Bagged Signal Head

(K1) 165 lb/yd² HMA, Type B, Surface, on
275 lb/yd² HMA, Type B, Intermediate, on
660 lb/yd² HMA, Type B, Base, on
Subgrade Treatment (Type 1C)

MARK D. ORTON
REGISTERED
No. 18831
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE: 9/6/12

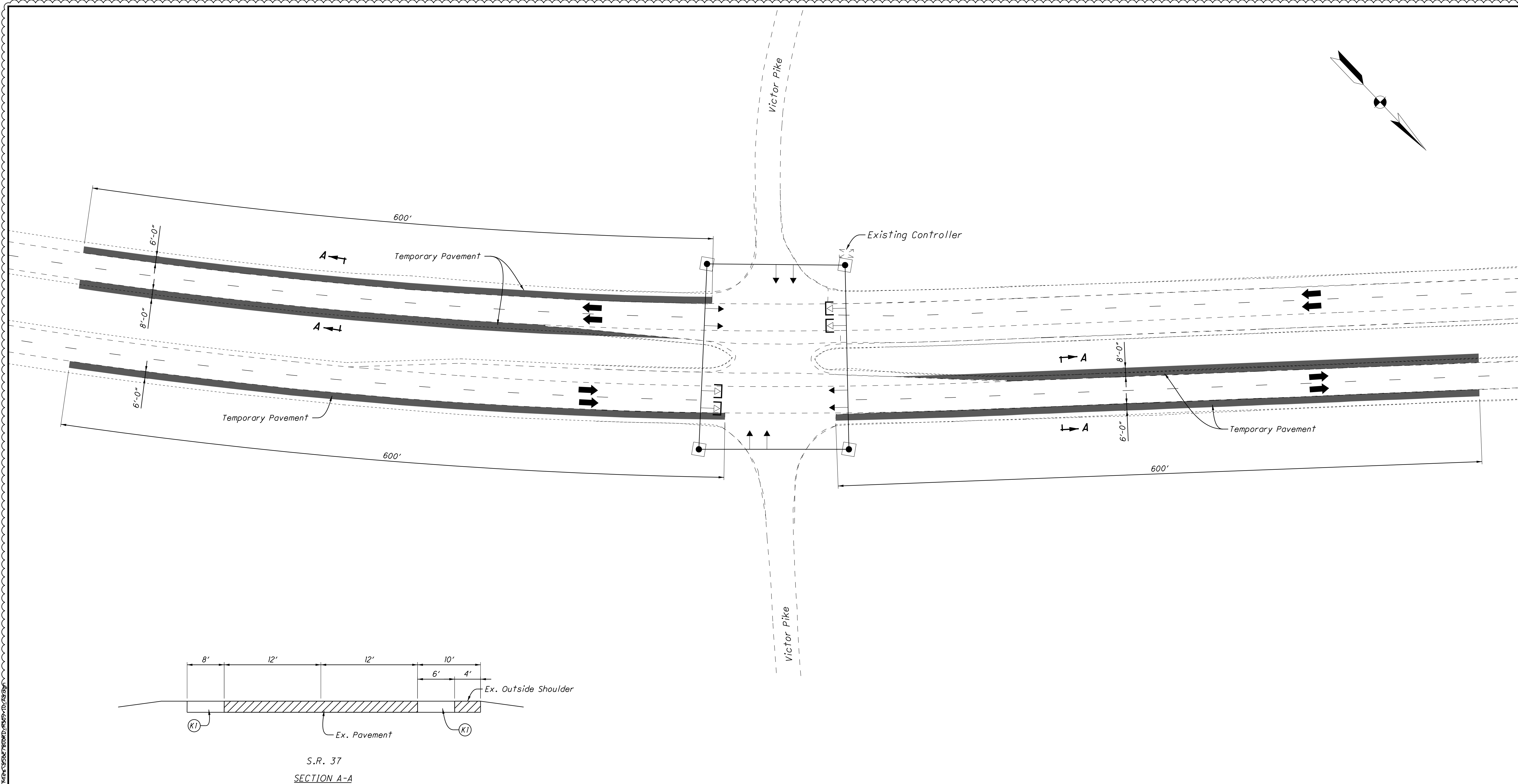
DESIGNED: MDO
DRAWN: KCH
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 1 - INTERSECTION DETAILS

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-09
CONTRACT IR-33742	SHEETS 30 of 173
	PROJECT 1006075

NOTE:
Install Temporary Traffic Signal Head
no sooner than 5 days before activation.

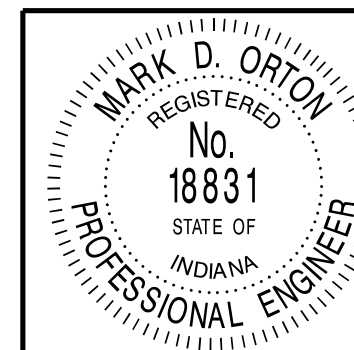


S.R. 37
SECTION A-A

DATE: 10/1/2012
TIME: 10:41:33 AM
C:\PROJECTS\1006075\1006075.DWG

09/25/12 - Miscellaneous revisions

- Area under construction
- (K1) 165 lb/yd² HMA, Type B, Surface, on
275 lb/yd² HMA, Type B, Intermediate, on
660 lb/yd² HMA, Type B, Base, on
Subgrade Treatment (Type 1C)



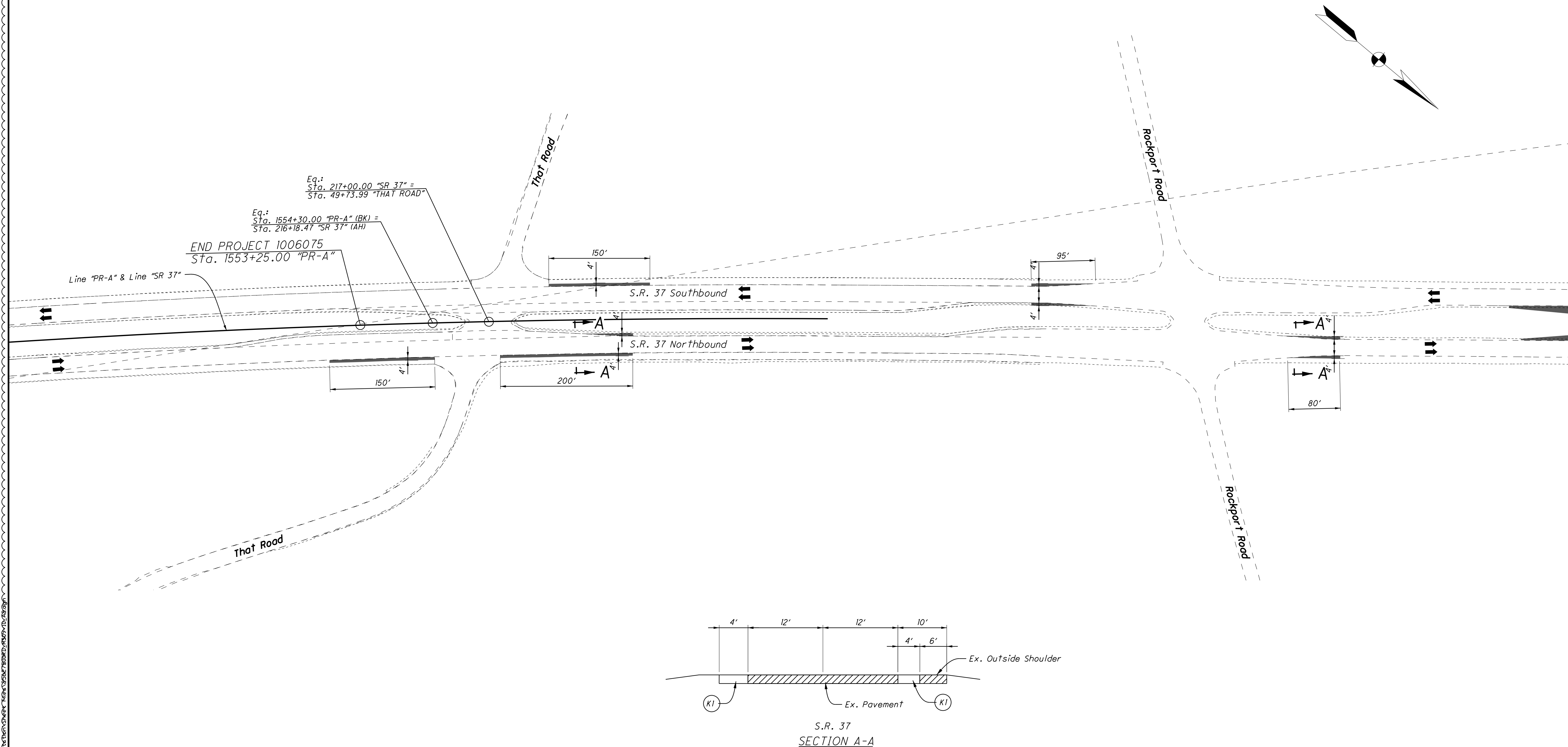
RECOMMENDED
FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION



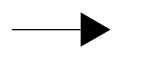

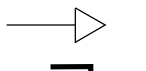

MAINTENANCE OF TRAFFIC
PHASE 1 - INTERSECTION DETAILS

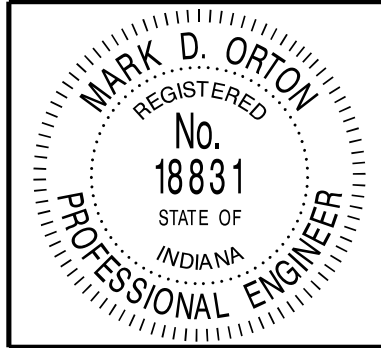
HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-10
CONTRACT IR-33742	SHEETS 31 of 173
	PROJECT 1006075

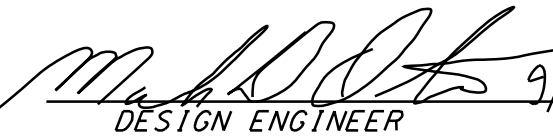


DATE: 10/1/2012
TIME: 10:41:35 AM
C:\PROJECTS\1006075\1006075.DWG

09/25/12 - Miscellaneous revisions

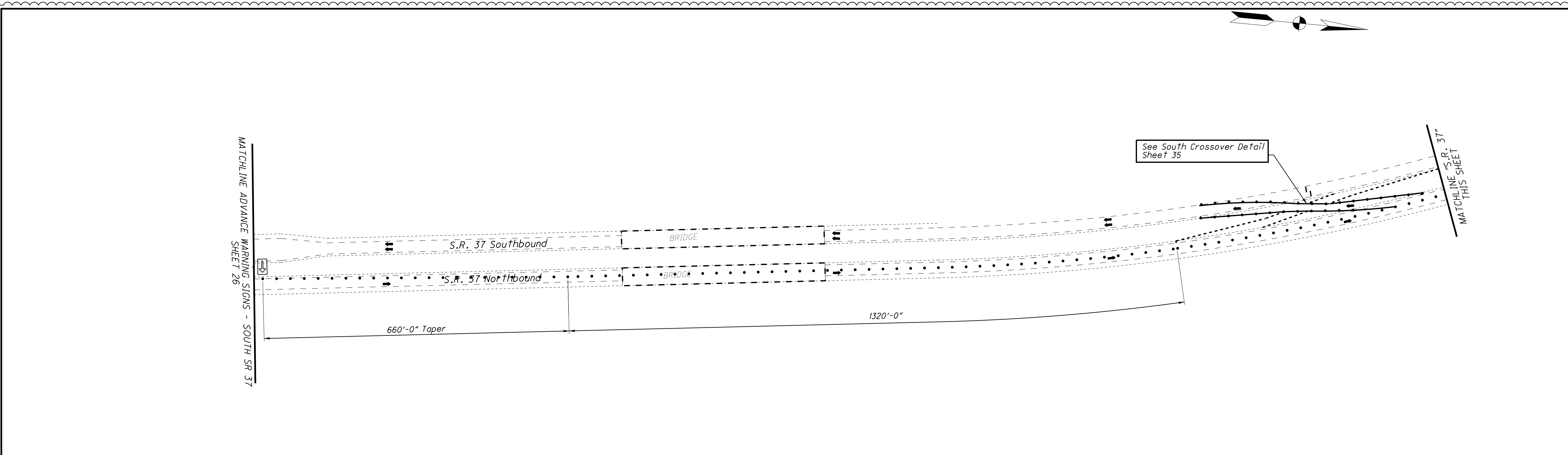
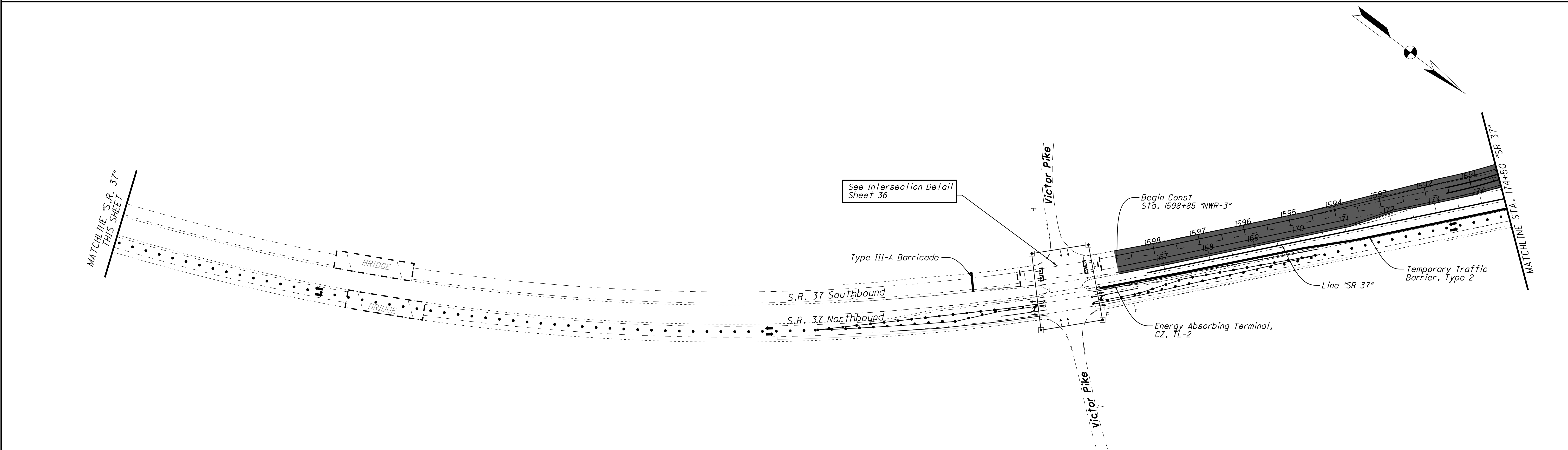
	Area under construction		Flexible Tubular Markers (50' Spa.)
	Existing Traffic Signal Head		Flashing Arrow Board
	Temporary Traffic Signal Head		
	Bagged Signal Head		

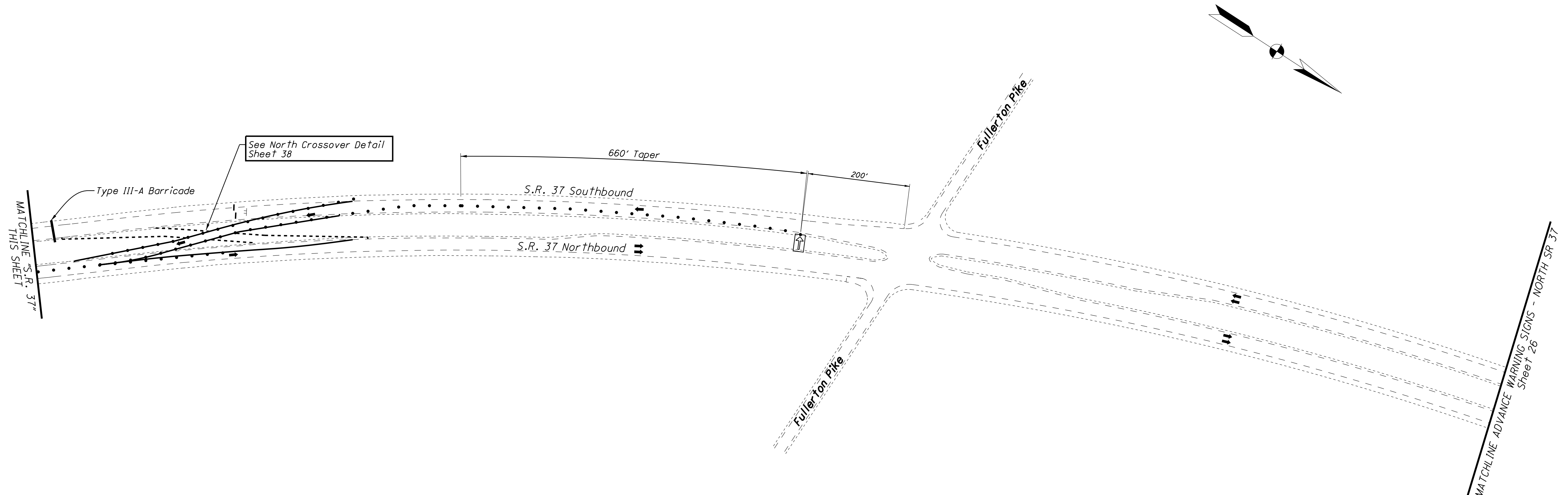
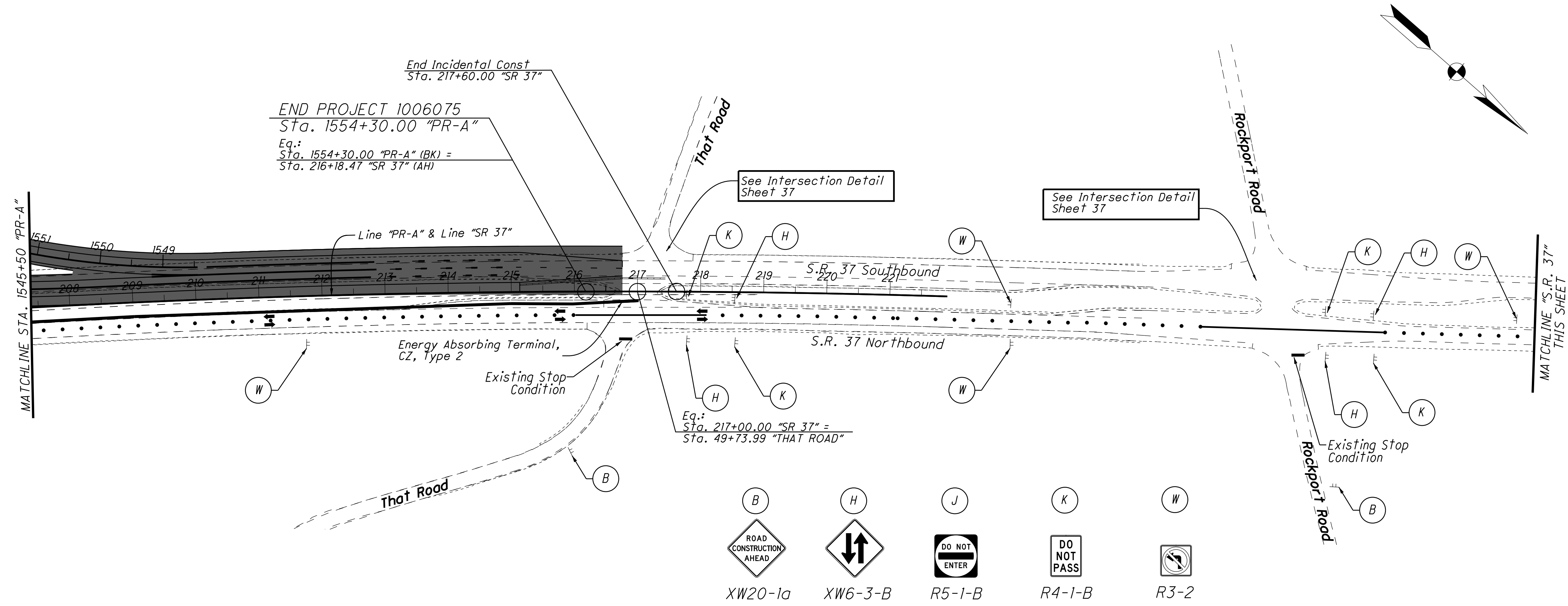


RECOMMENDED FOR APPROVAL		DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 2

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-II
CONTRACT IR-33742	SHEETS 32 of 173
	PROJECT 1006075





Area under construction

Flexible Tubular Markers (50' Spa.)

Flashing Arrow Board

MARK D. ORTON
REGISTERED
No. 18831
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

DESIGNED: MDO DRAWN: KCH
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2

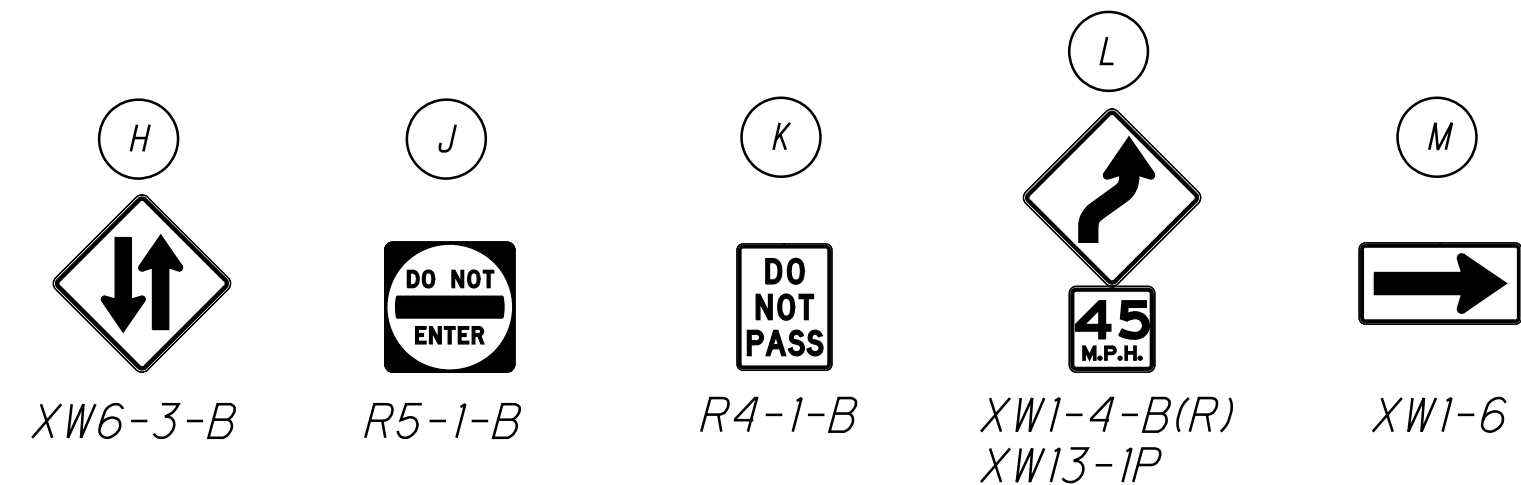
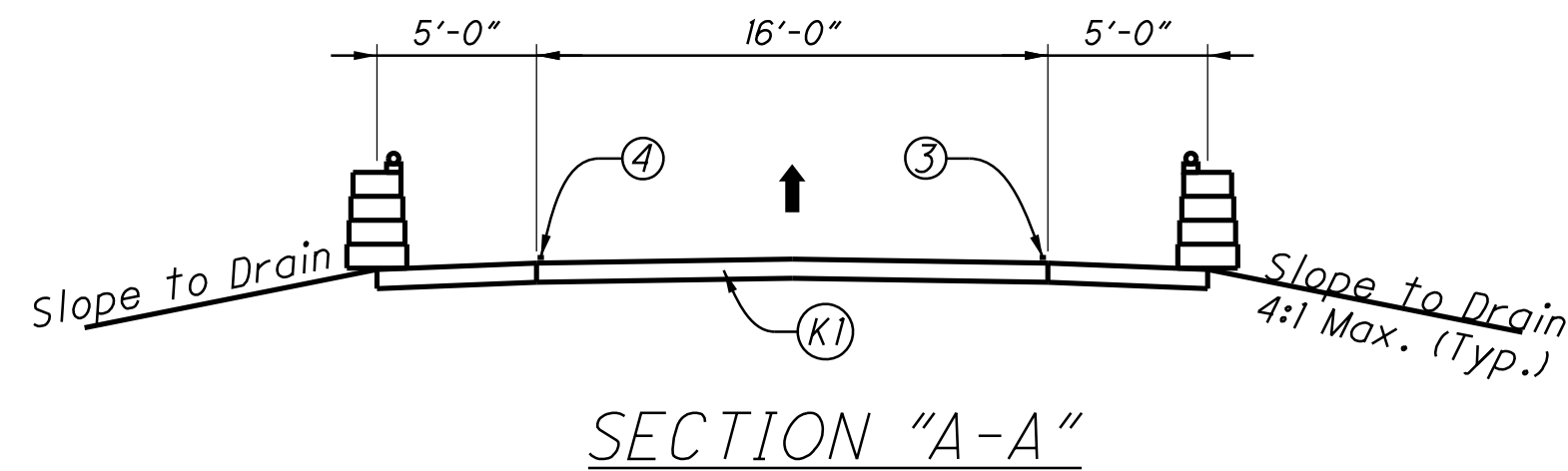
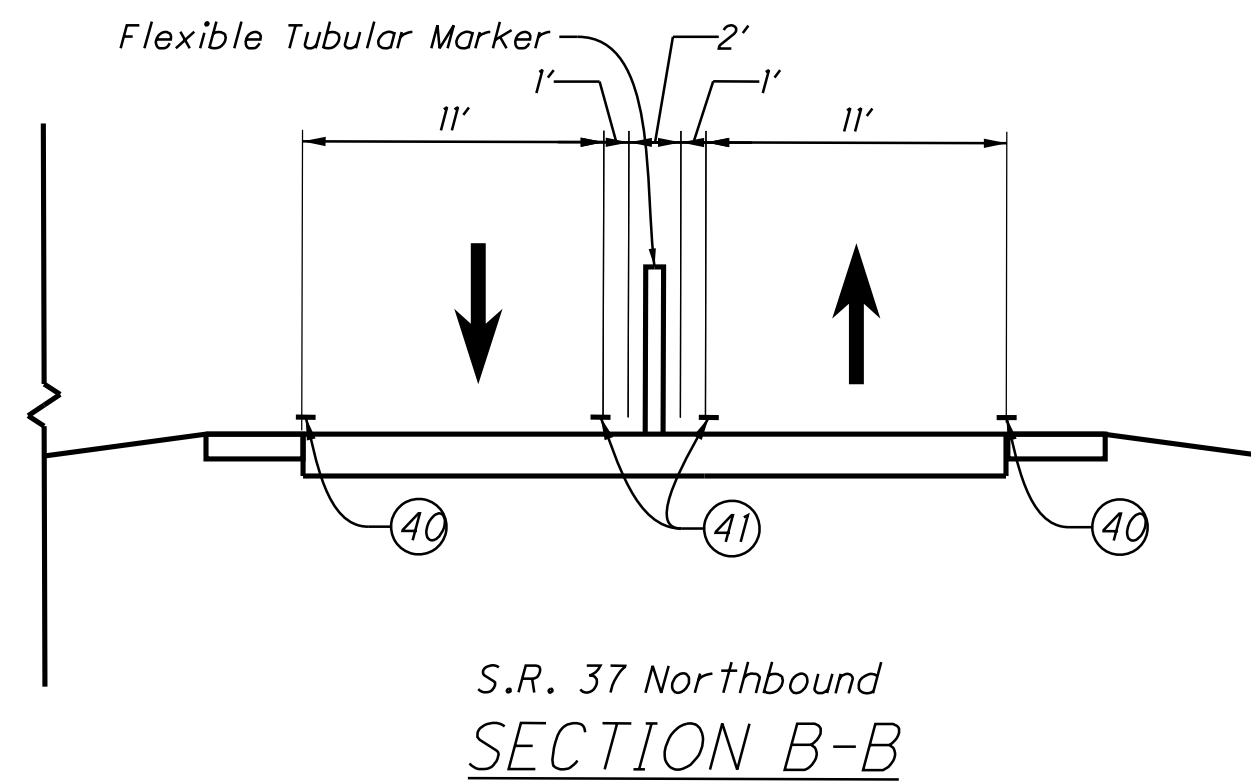
HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-13
CONTRACT IR-33742	SHEETS 34 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:41:37 AM
LOCATION: SR 37, STA 1545+50

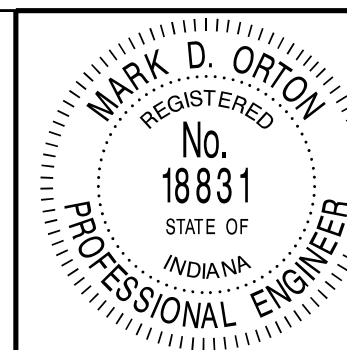
DATE: 10/1/2012
TIME: 10:41:38 AM
DRAWN BY: MDO
CHECKED BY: HCF

09/25/12 - Miscellaneous revisions

SOUTH TEMPORARY CROSSOVER DETAIL



- 3 Temp. Pavement Marking, Removable, 8 in., White
- 4 Temp. Pavement Marking, Removable, 8 in., Yellow
- 40 Temp. Pavement Marking, Removable, 4 in., White
- 41 Temp. Pavement Marking, Removable, 4 in., Yellow
- 45 Temp. Pavement Marking, Removable, 24 in., White
- Direction of Traffic
- Flexible Tubular Markers (50' Spa.)
- Construction Barrel
- 165 lb/yd2 HMA, Type B, Surface, on
- 275 lb/yd2 HMA, Type B, Intermediate, on
- 660 lb/yd2 HMA, Type B, Base, on
- Subgrade Treatment (Type 1C)



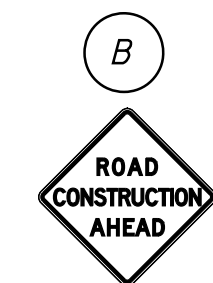
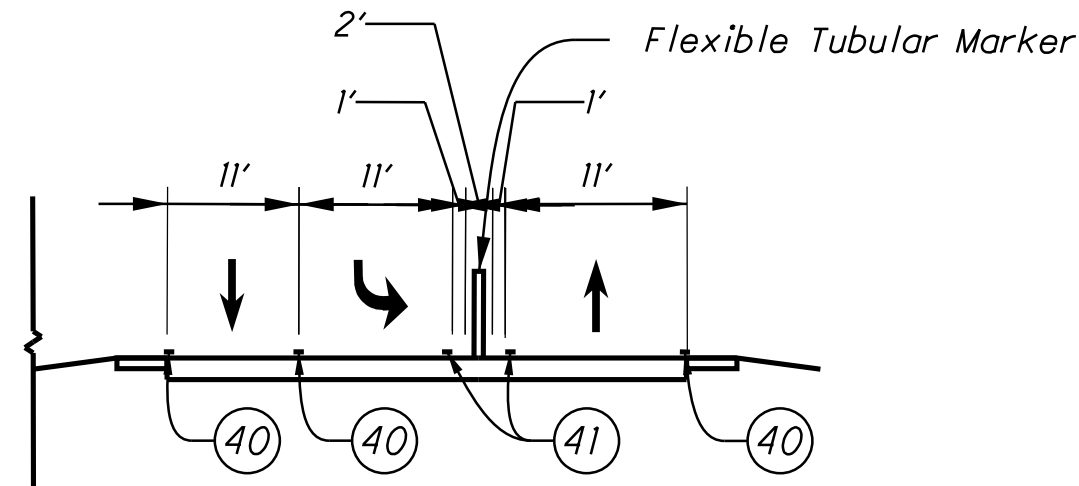
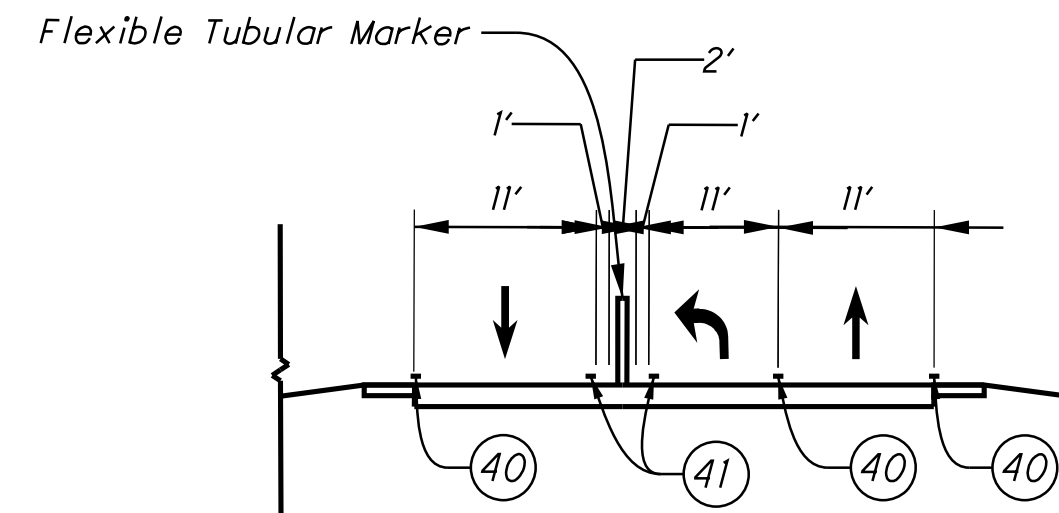
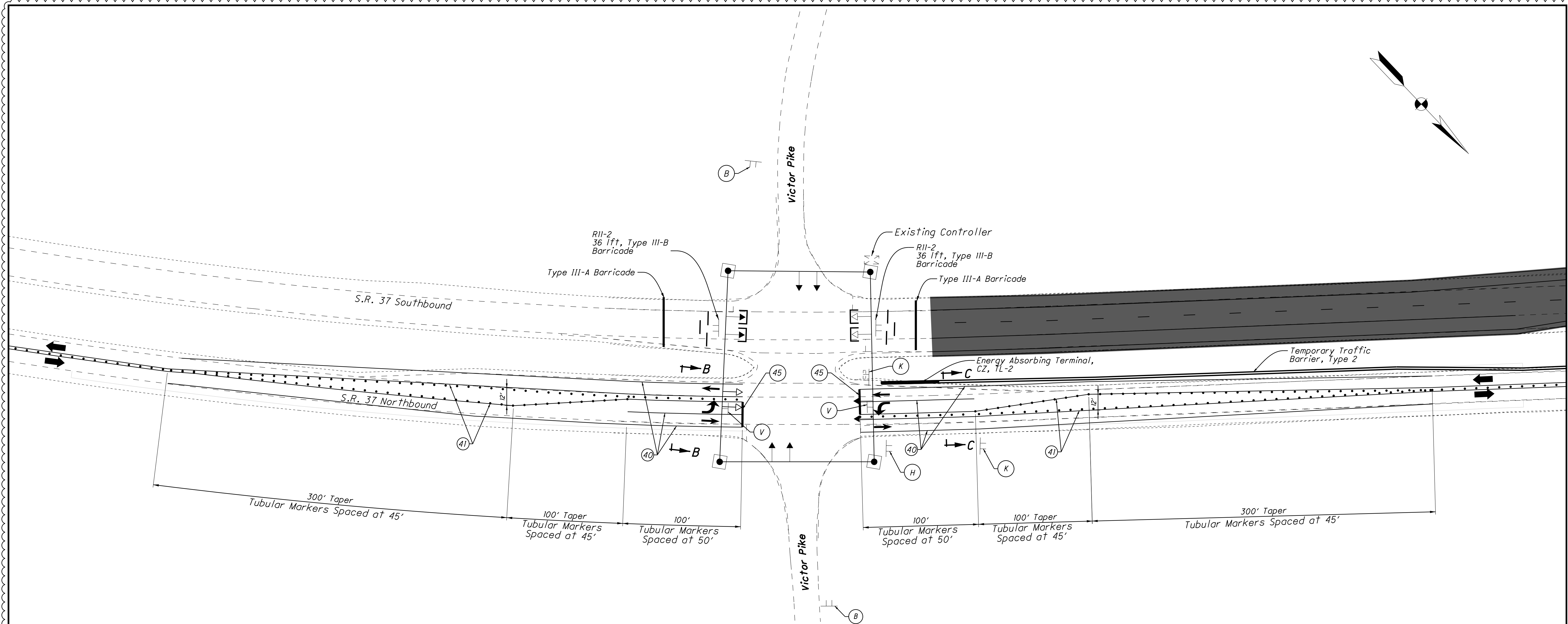
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

INDIANA
DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
PHASE 2 - CROSSOVER DETAILS

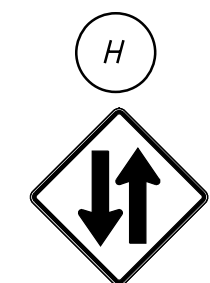
HORIZONTAL SCALE 1" = 30'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-14
CONTRACT IR-33742	SHEETS 35 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:41:39 AM
C:\P\1006075\1006075.dwg

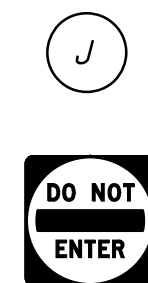
1006075-1006075.dwg



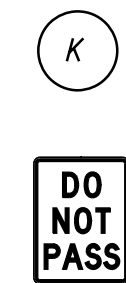
XW20-1a



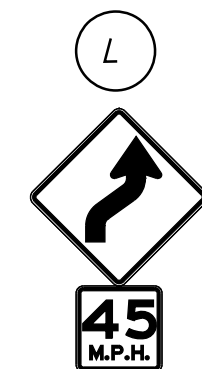
XW6-3-B



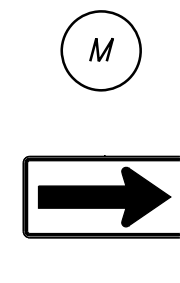
R5-1-B



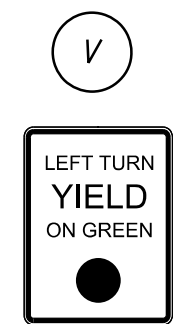
R4-1-B



XW1-4-B(R)
XW13-1P



XW1-6

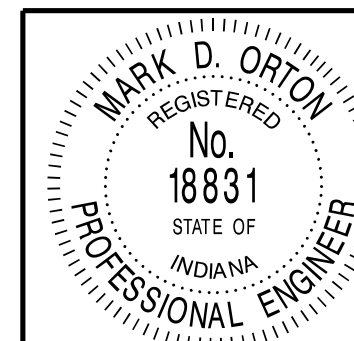


R10-12

- Area under construction
- Existing Traffic Signal Head
- Temporary Traffic Signal Head
- Bagged Signal Head

- Temp. Pavement Marking, Removable, 8 in., White
- Temp. Pavement Marking, Removable, 8 in., Yellow
- Temp. Pavement Marking, Removable, 4 in., White
- Temp. Pavement Marking, Removable, 4 in., Yellow
- Temp. Pavement Marking, Removable, 24 in., White
- Direction of Traffic

• • • Flexible Tubular Markers (50' Spa.)



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE: 9/6/10

DESIGNED: MDO
DRAWN: KCH
CHECKED: HCF
CHECKED: MDO

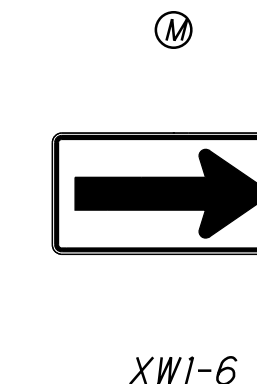
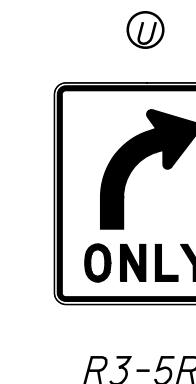
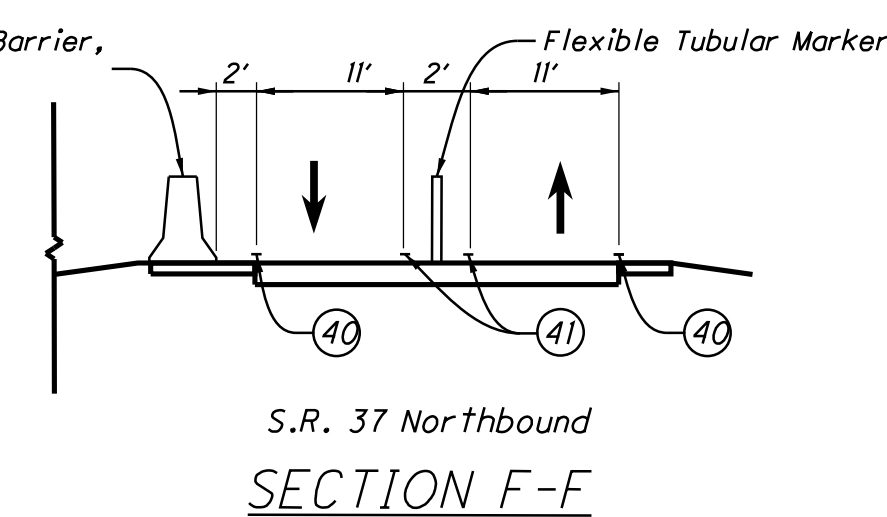
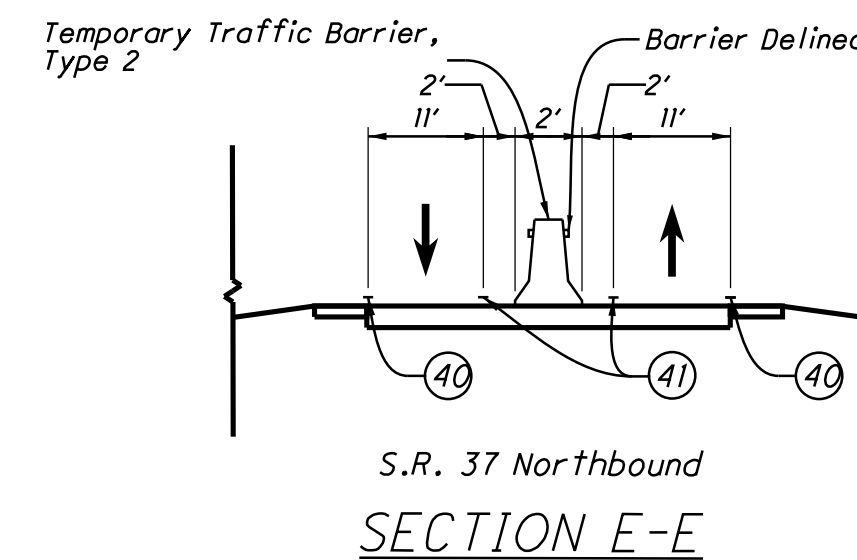
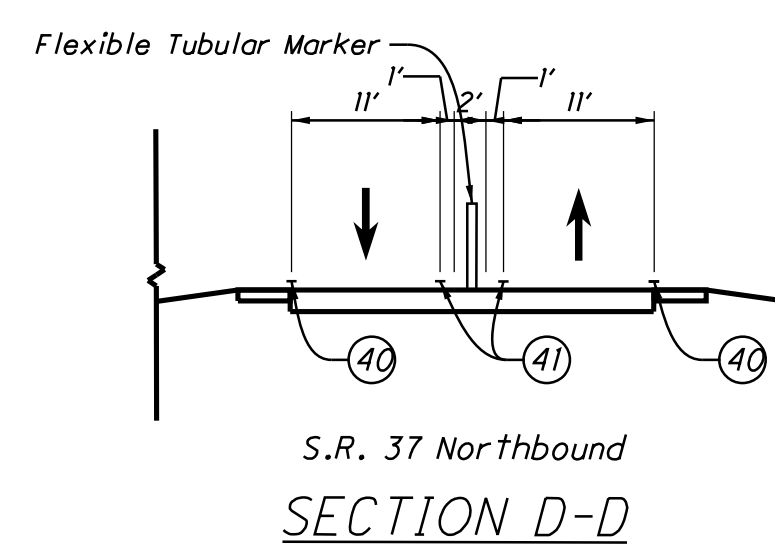
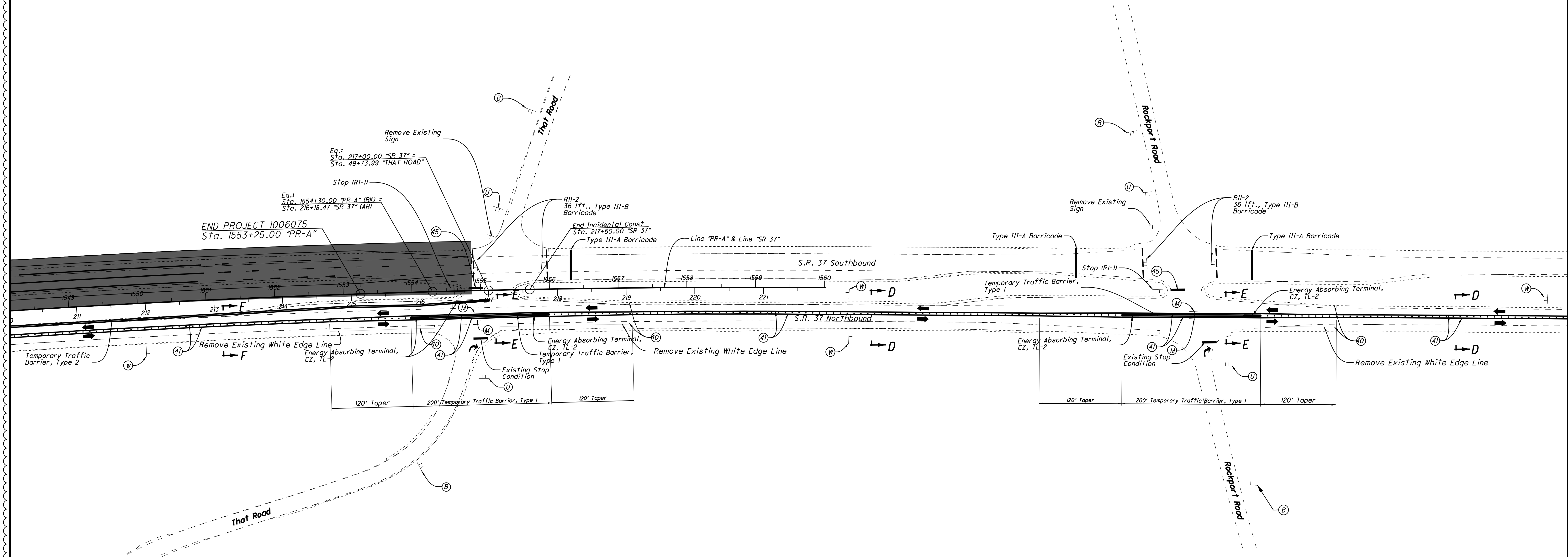
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 2 - INTERSECTION DETAILS

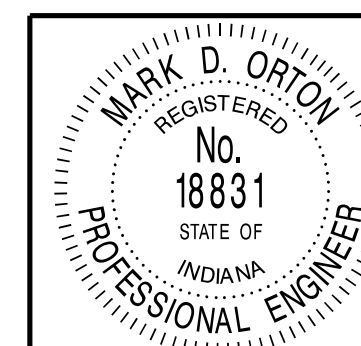
HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-15
CONTRACT IR-33742	SHEETS 36 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:41:40 AM
C:\P\1006075\1006075.dwg

09/25/12 - Miscellaneous revisions



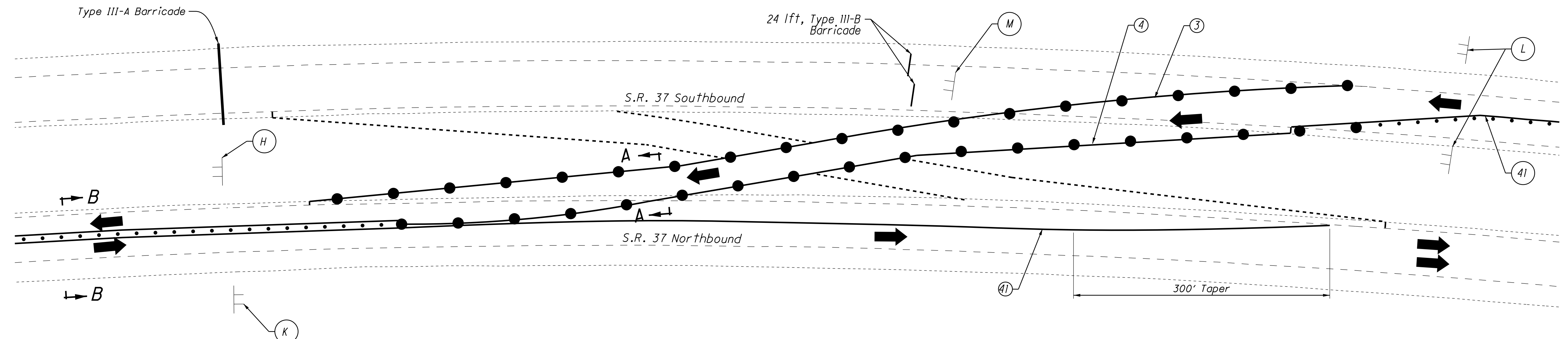
- Area under construction
- Flexible Tubular Markers (50' Spa.)
- Temp. Pavement Marking, Removable, 4 in., White
- Temp. Pavement Marking, Removable, 4 in., Yellow
- Temp. Pavement Marking, Removable, 24 in., White
- Direction of Traffic



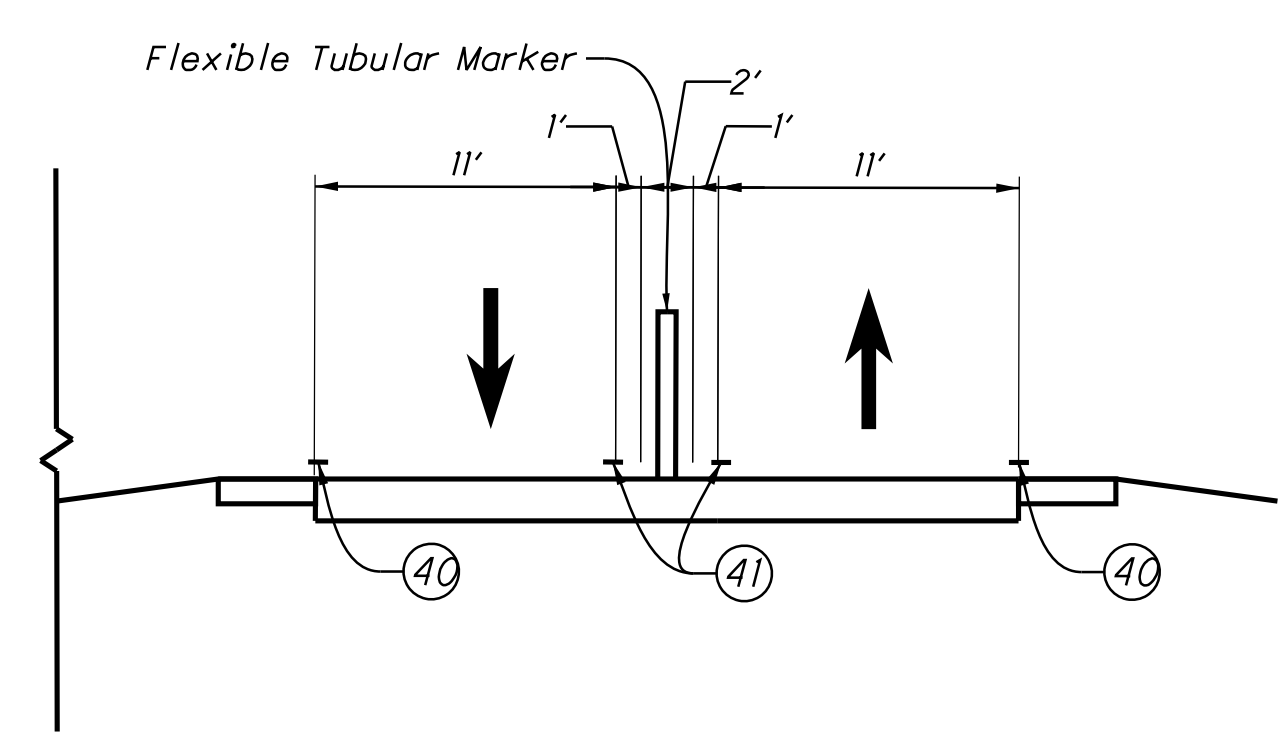
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE: 9/6/12
DESIGNED: MDO
DRAWN: KCH
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
PHASE 2 - INTERSECTION DETAILS

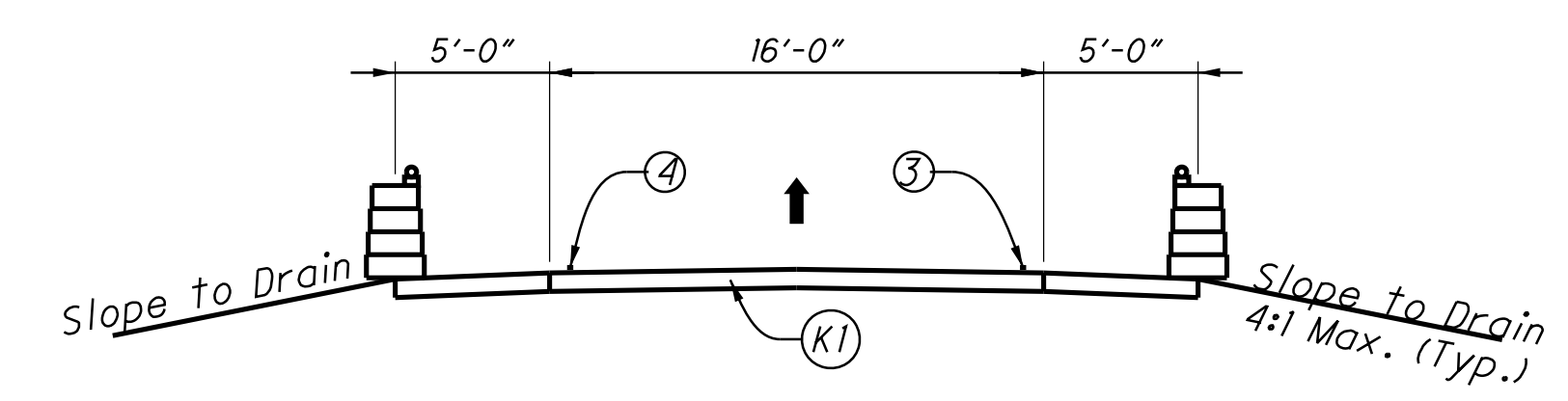
HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	MS-16
CONTRACT	37 of 173
IR-33742	PROJECT
	1006075



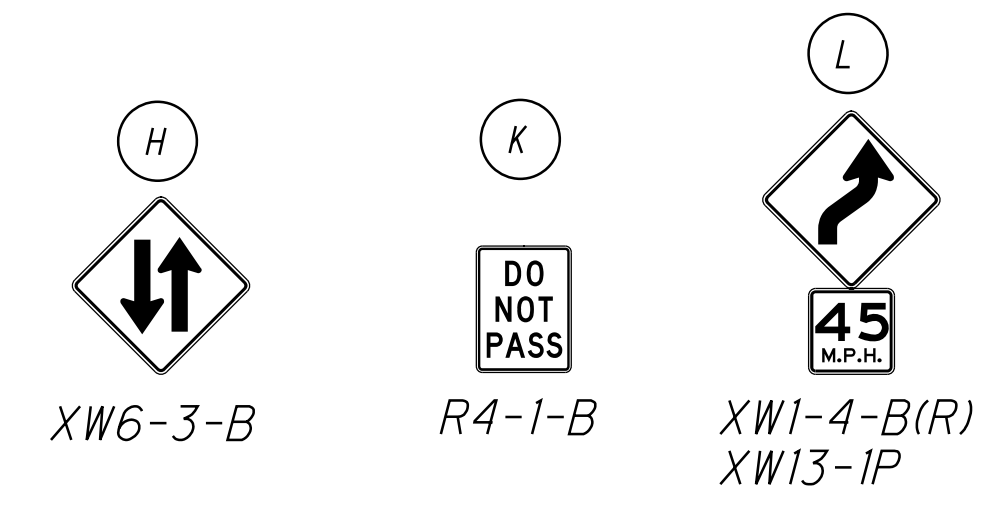
NORTH TEMPORARY CROSSOVER DETAIL



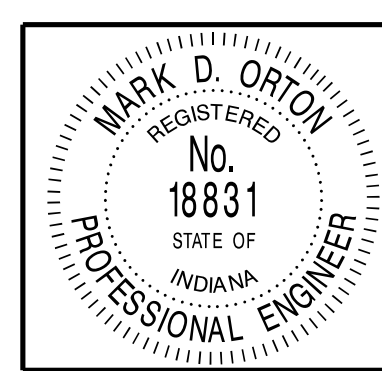
SECTION B-B



SECTION "A-A"



- ③ Temp. Pavement Marking, Removable, 8 in., White
- ④ Temp. Pavement Marking, Removable, 8 in., Yellow
- ④① Temp. Pavement Marking, Removable, 4 in., White
- ④① Temp. Pavement Marking, Removable, 4 in., Yellow
- ④⑤ Temp. Pavement Marking, Removable, 24 in., White
- ➡ Direction of Traffic
- • • Flexible Tubular Markers (50' Spa.)
- Construction Barrel
- (K1) 165 lb/yd² HMA, Type B, Surface, on 275 lb/yd² HMA, Type B, Intermediate, on 660 lb/yd² HMA, Type B, Base, on Subgrade Treatment (Type 1C)



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10
 DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH
 CHECKED: HCF CHECKED: MDO

INDIANA
 DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
 PHASE 2 - CROSSOVER DETAILS


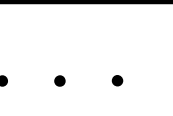

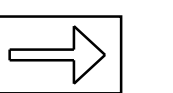
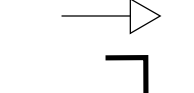

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-17
CONTRACT IR-33742	SHEETS 38 of 173
	PROJECT 1006075

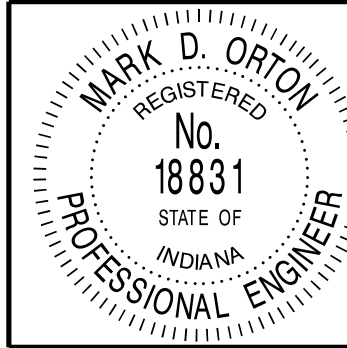
DATE: 10/1/2012
 TIME: 10:41:41 AM
 LOCATION: SR 37, INDIANA


DATE: 10/1/2012
TIME: 11:42:16 AM
LOCATION: SR 37

PROJECT: SR 37 MAINTENANCE OF TRAFFIC PHASE 3
SHEET: 39 OF 173
CONTRACT: IR-33742

09/25/12 - Miscellaneous revisions

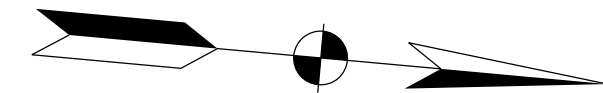
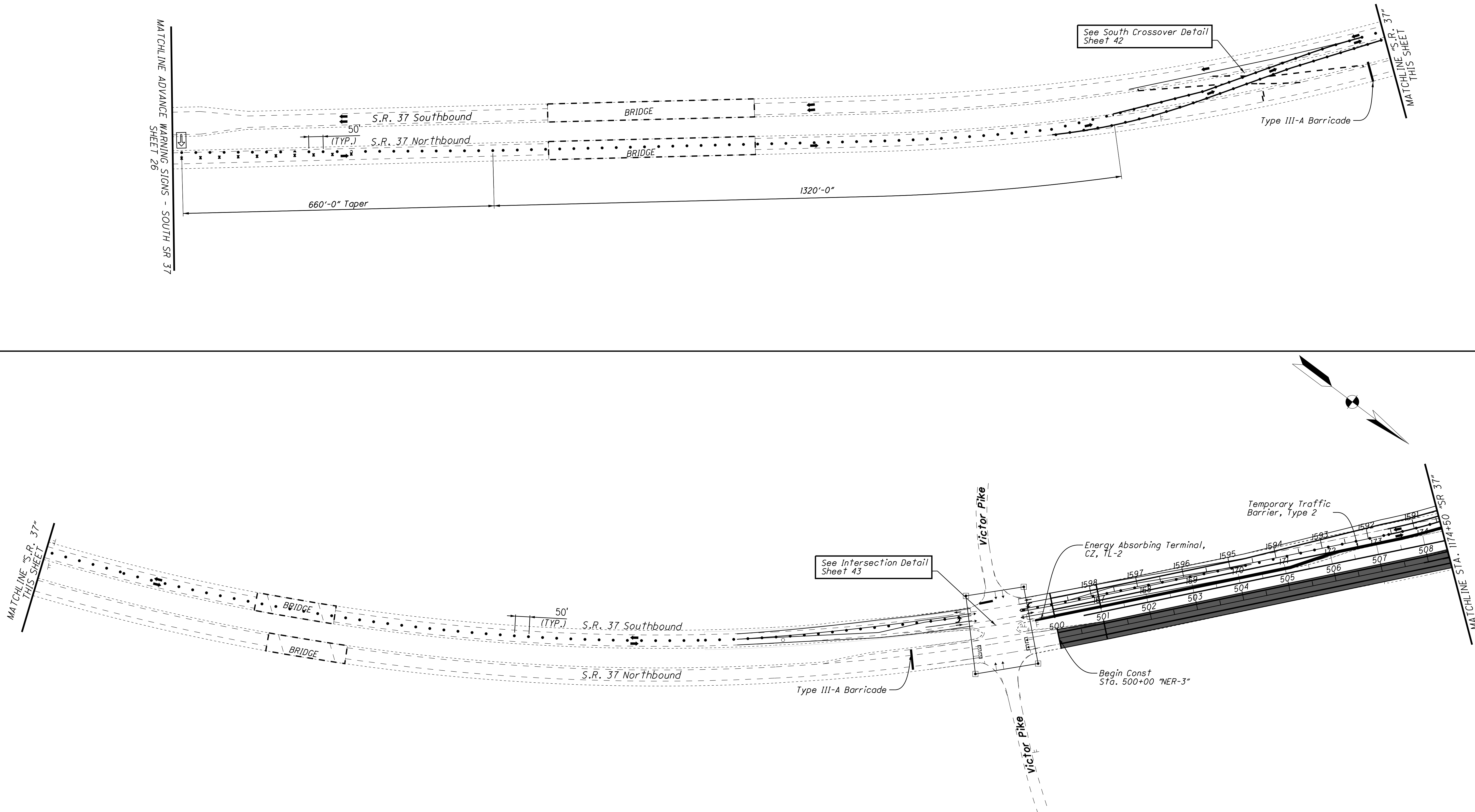
	Area under construction		Flexible Tubular Markers (50' Spa.)
	Existing Traffic Signal Head		Flashing Arrow Board
	Temporary Traffic Signal Head		
	Bagged Signal Head		



RECOMMENDED FOR APPROVAL		DATE	9/6/12
DESIGNED:	MDO	DRAWN:	KCH
CHECKED:	HCF	CHECKED:	MDO

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 3

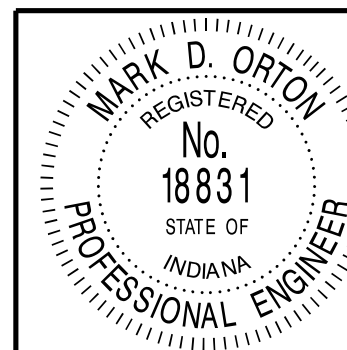
HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-18
CONTRACT IR-33742	SHEETS 39 of 173
	PROJECT 1006075



DATE: 10/1/2012
TIME: 11:42:17 AM
LOCATION: I-174 SR 37

09/25/12 - Miscellaneous revisions

- Area under construction
- Flexible Tubular Markers (50' Spa.)
- ④ TPM, White, 4 in.
- ④ TPM, Yellow, 4 in.



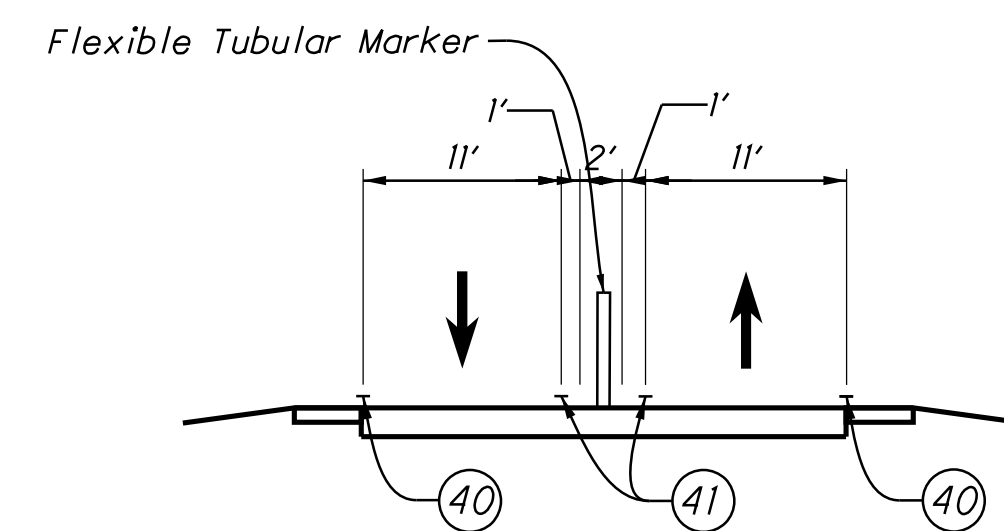
RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: KCH
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

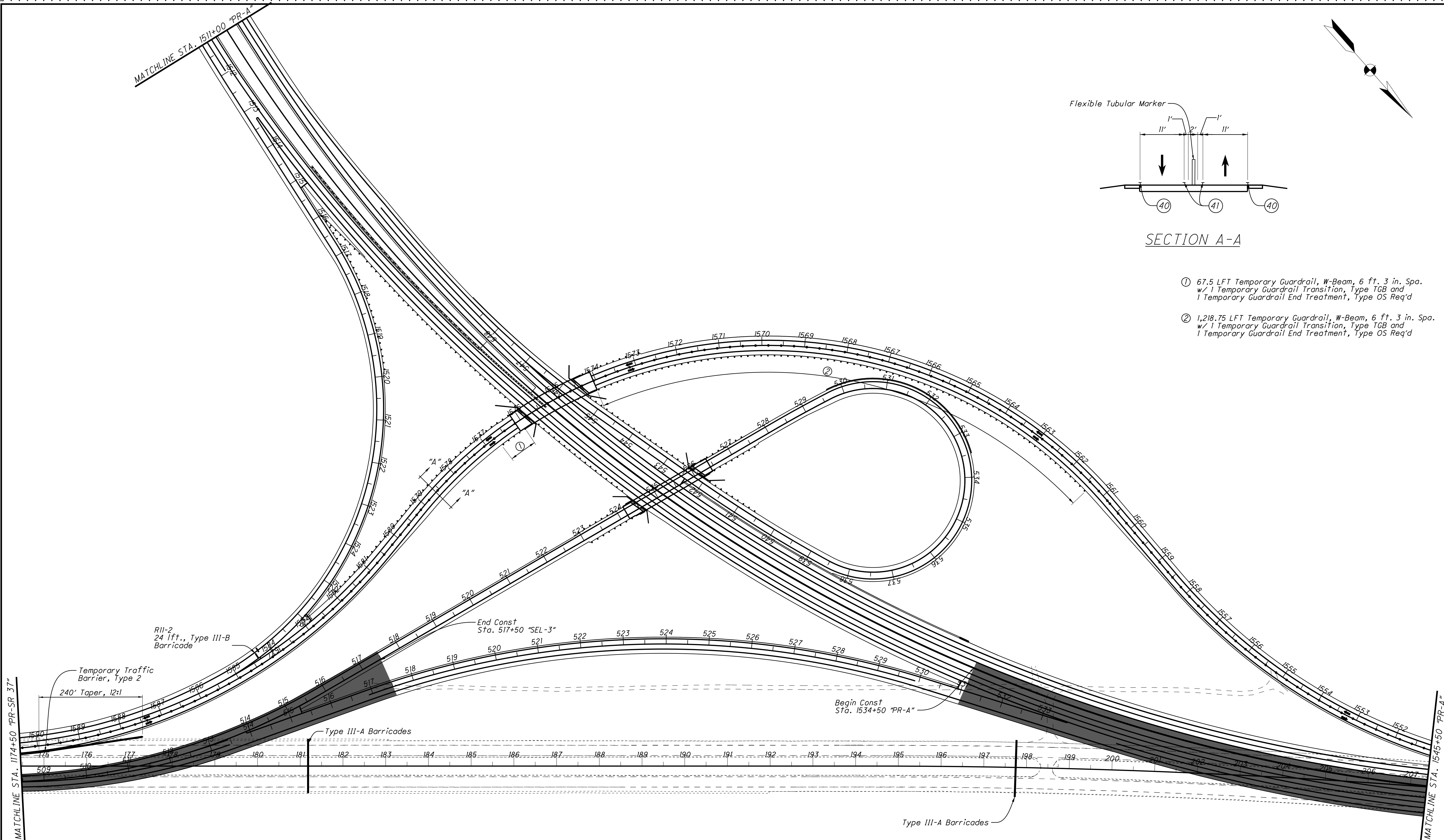
MAINTENANCE OF TRAFFIC
PHASE 3

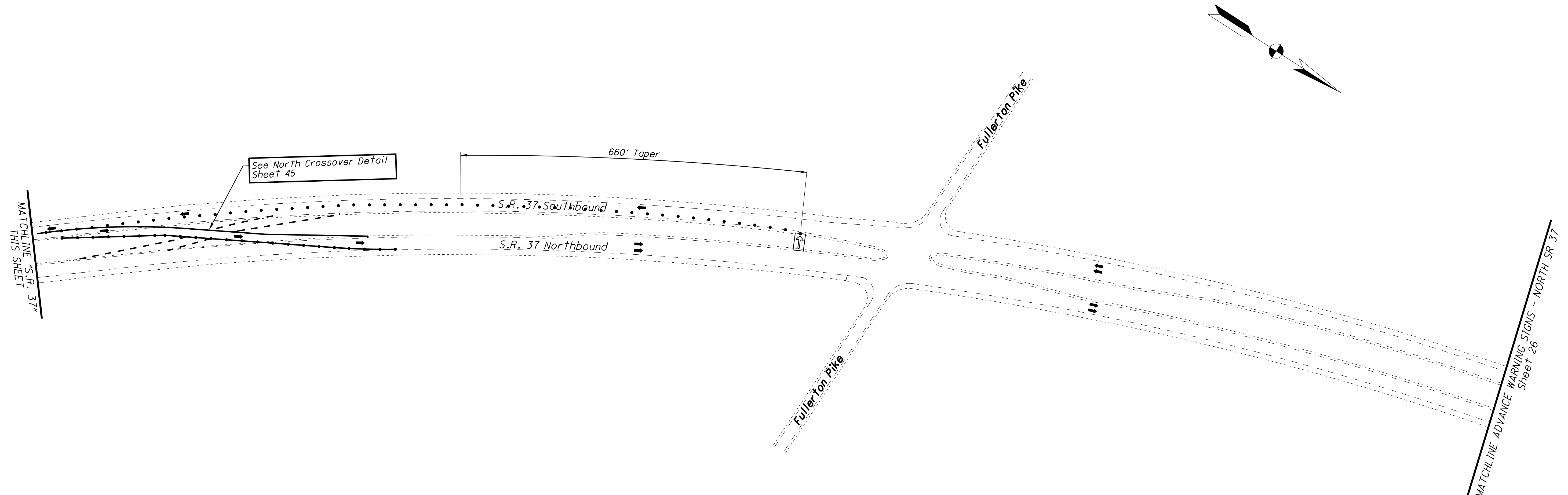
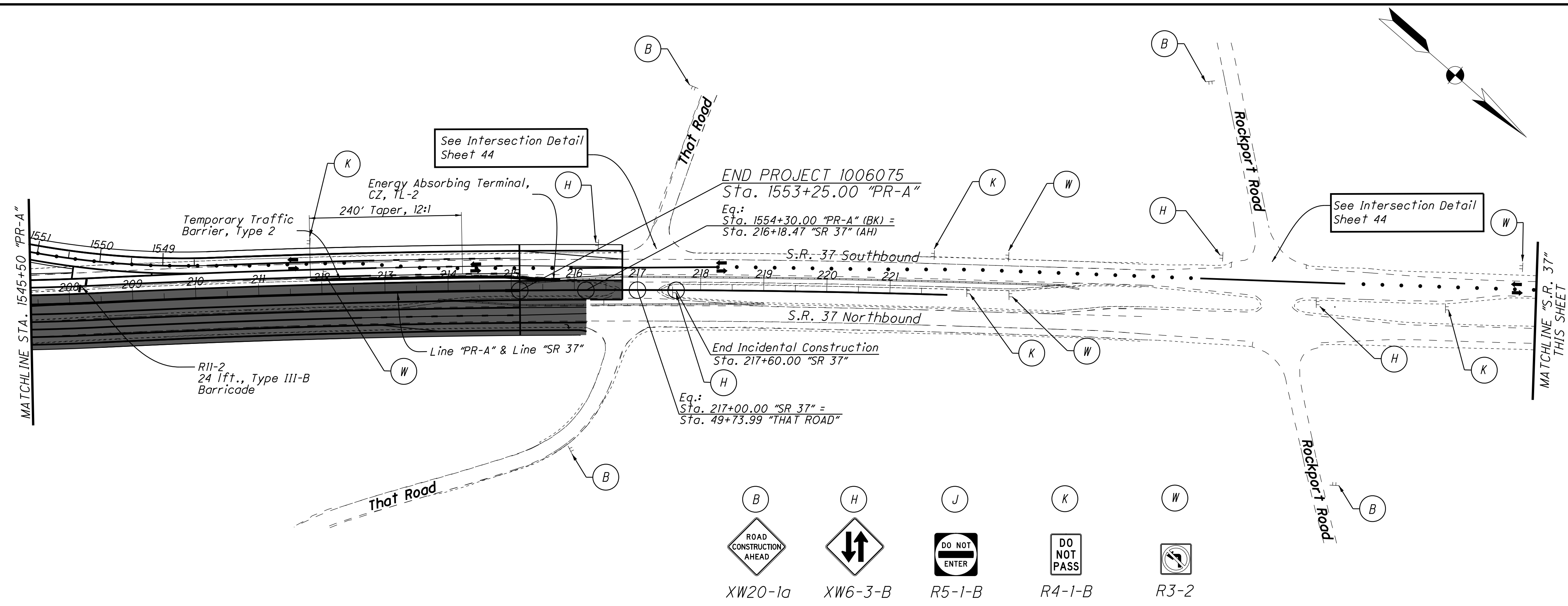
HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-19
CONTRACT IR-33742	SHEETS 40 of 173
	PROJECT 1006075



SECTION A-A

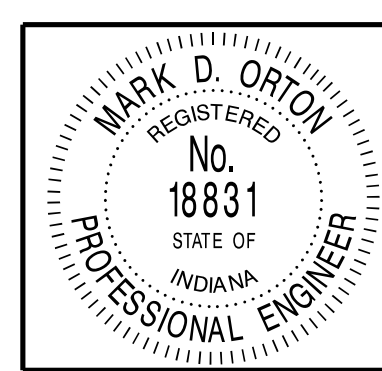
- ① 67.5 LFT Temporary Guardrail, W-Beam, 6 ft. 3 in. Spa.
w/ 1 Temporary Guardrail Transition, Type TGB and
1 Temporary Guardrail End Treatment, Type OS Req'd
- ② 1,218.75 LFT Temporary Guardrail, W-Beam, 6 ft. 3 in. Spa.
w/ 1 Temporary Guardrail Transition, Type TGB and
1 Temporary Guardrail End Treatment, Type OS Req'd





DATE: 10/1/2012
TIME: 11:42:18 AM
LOCATION: SR 37 / SR 37

- Area under construction
- Flexible Tubular Markers (50' Spa.)
- Flashing Arrow Board

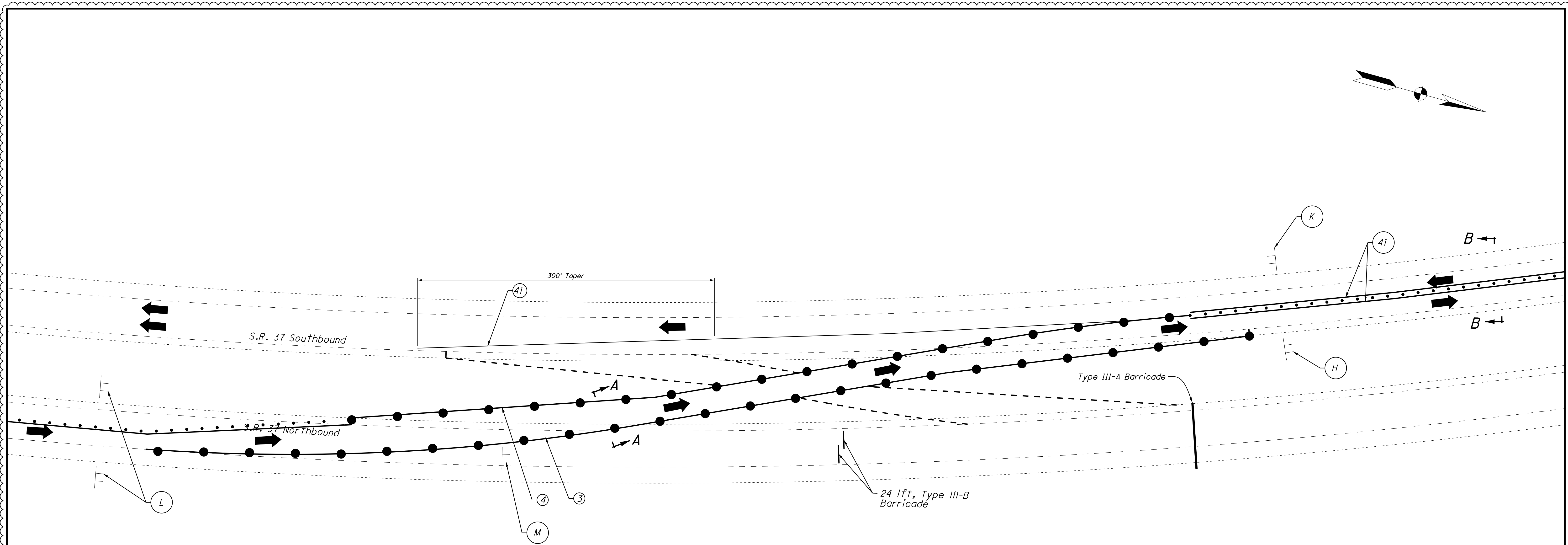


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

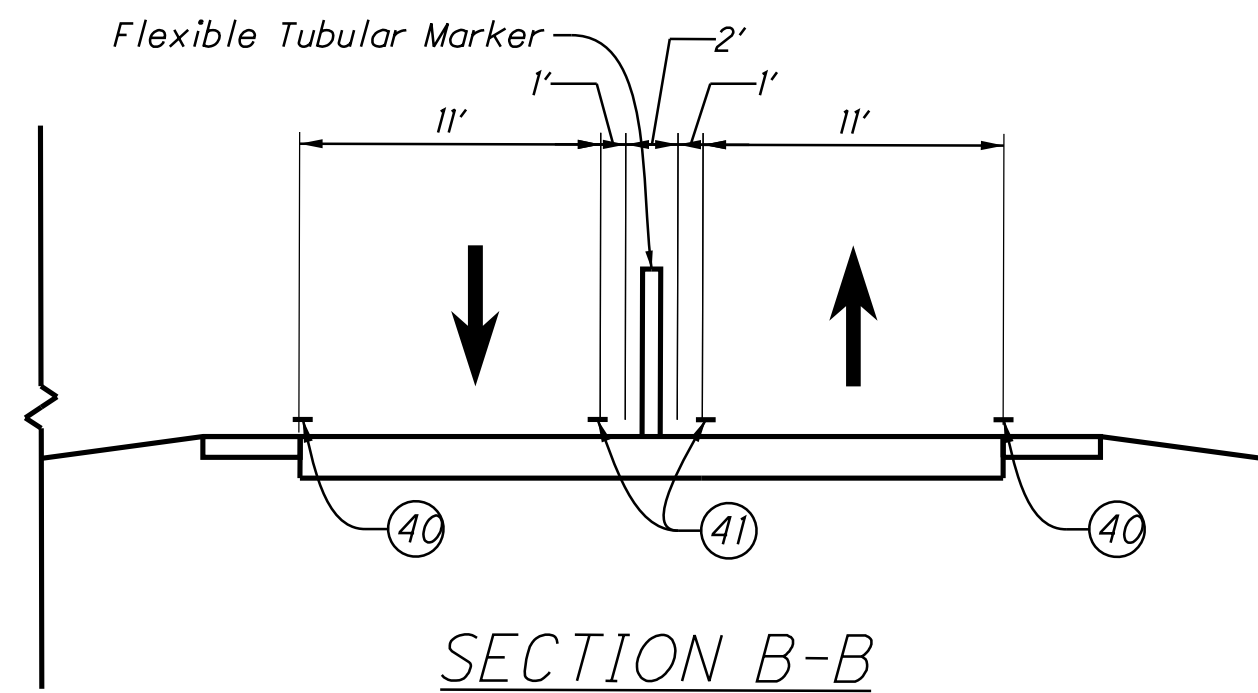
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 3

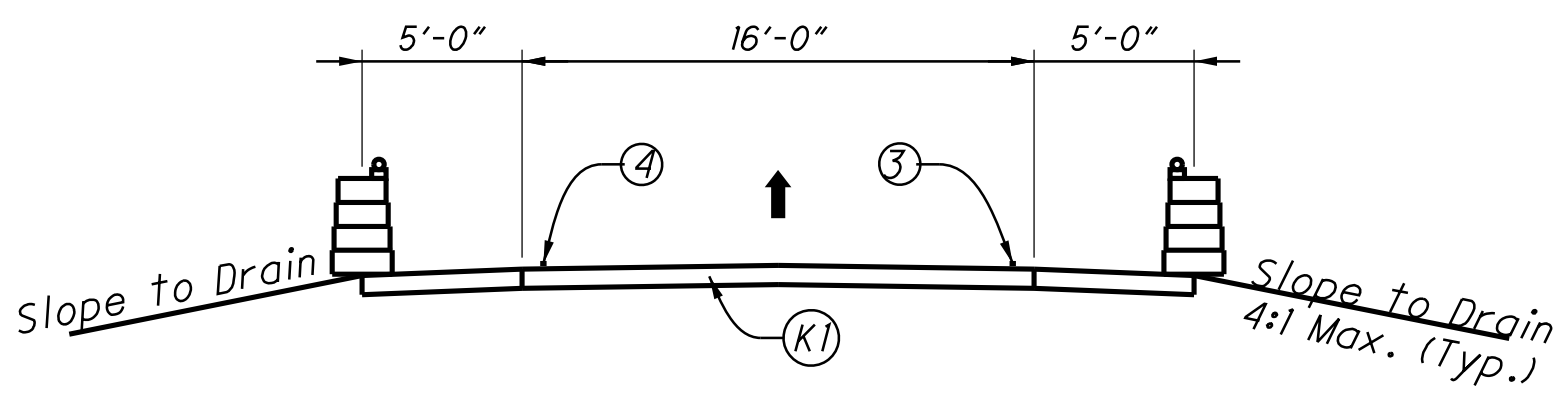
HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-20
CONTRACT IR-33742	SHEETS 41 of 173
	PROJECT 1006075



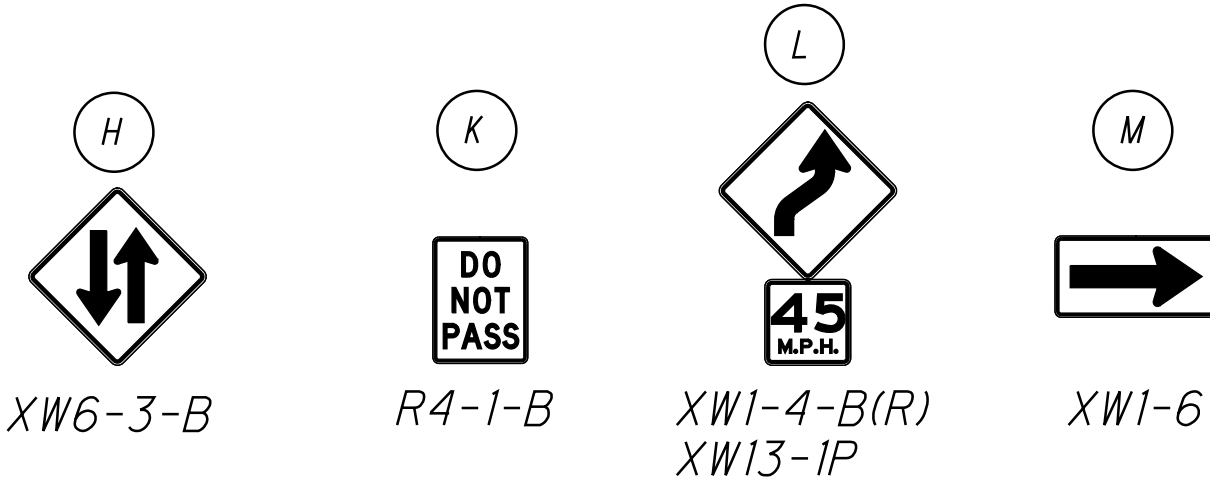
SOUTH TEMPORARY CROSSOVER DETAIL



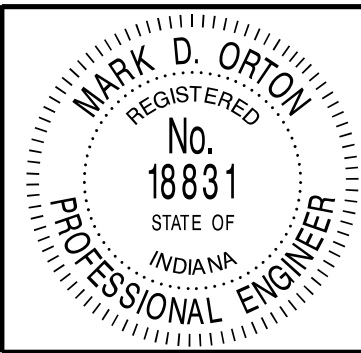
SECTION B-B



SECTION "A-A"



③	Temp. Pavement Marking, Removable, 8 in., White	• • •	Flexible Tubular Markers (50' Spa.)
④	Temp. Pavement Marking, Removable, 8 in., Yellow	●	Construction Barrel
④①	Temp. Pavement Marking, Removable, 4 in., White	Ⓚ①	165 lb/yd2 HMA, Type B, Surface, on
④①	Temp. Pavement Marking, Removable, 4 in., Yellow		275 lb/yd2 HMA, Type B, Intermediate, on
④⑤	Temp. Pavement Marking, Removable, 24 in., White		660 lb/yd2 HMA, Type B, Base, on
➡	Direction of Traffic		Subgrade Treatment (Type 1C)

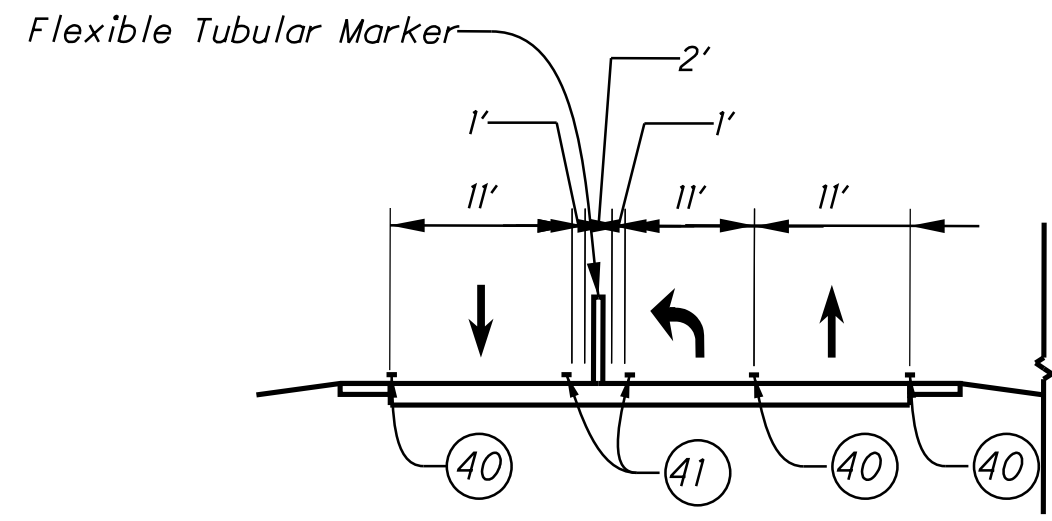
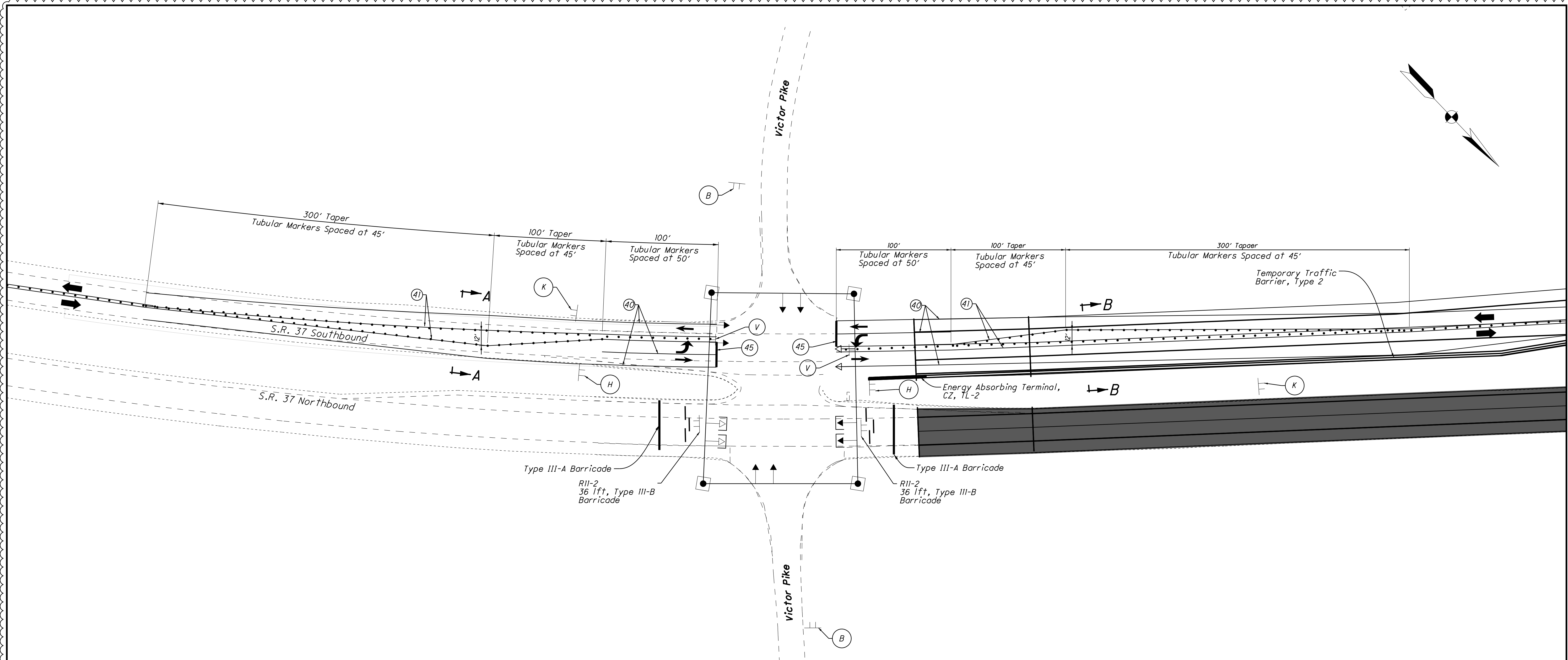


RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	9/6/10	DATE
DESIGNED:	MDO	DRAWN:	KCH
CHECKED:	HCF	CHECKED:	MDO

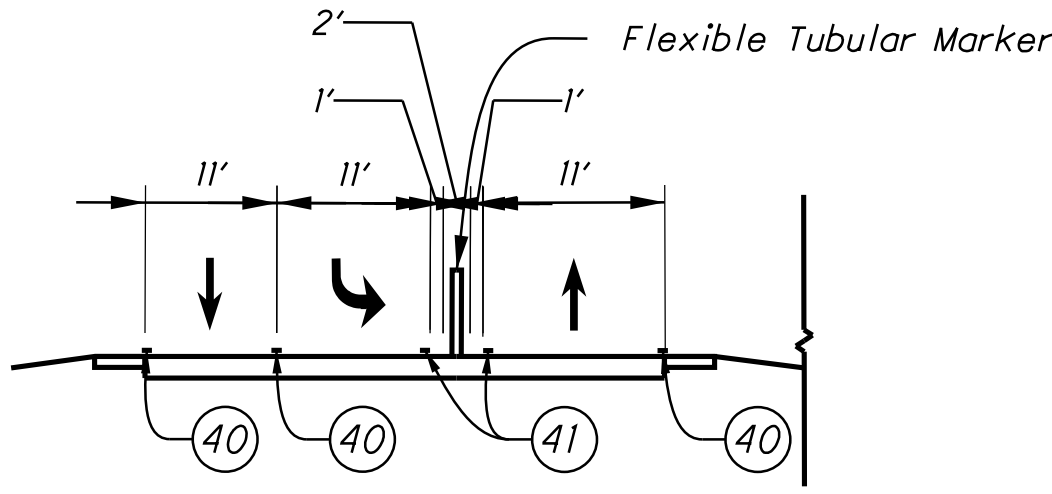
INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 3 - CROSSOVER DETAILS

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-21
CONTRACT IR-33742	SHEETS 42 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:41:47 AM
LOCATION: SR 37, INDIANA



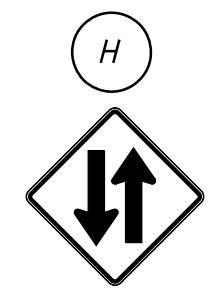
S.R. 37 Northbound
SECTION B-B



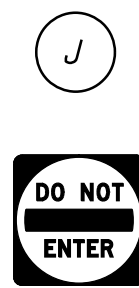
S.R. 37 Northbound
SECTION C-C



XW20-1a



XW6-3-B



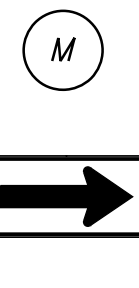
R5-1-B



R4-1-B



XW1-4-B(R)
XW13-1P



XW1-6



R10-12

	Area under construction	③	Temp. Pavement Marking, Removable, 8 in., White	• • •	Flexible Tubular Markers (50' Spa.)
	Existing Traffic Signal Head	④	Temp. Pavement Marking, Removable, 8 in., Yellow		
	Temporary Traffic Signal Head	④①	Temp. Pavement Marking, Removable, 4 in., White		
	Bagged Signal Head	④①	Temp. Pavement Marking, Removable, 4 in., Yellow		
		④⑤	Temp. Pavement Marking, Removable, 24 in., White		
			Direction of Traffic		



RECOMMENDED FOR APPROVAL		DATE	9/6/10
DESIGNED: MDO	DRAWN: KCH		
CHECKED: HCF	CHECKED: MDO		

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 3 - INTERSECTION DETAILS

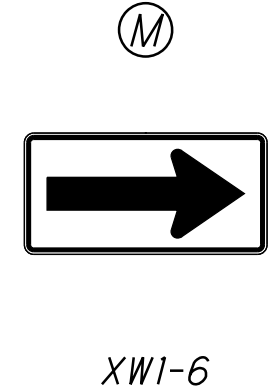
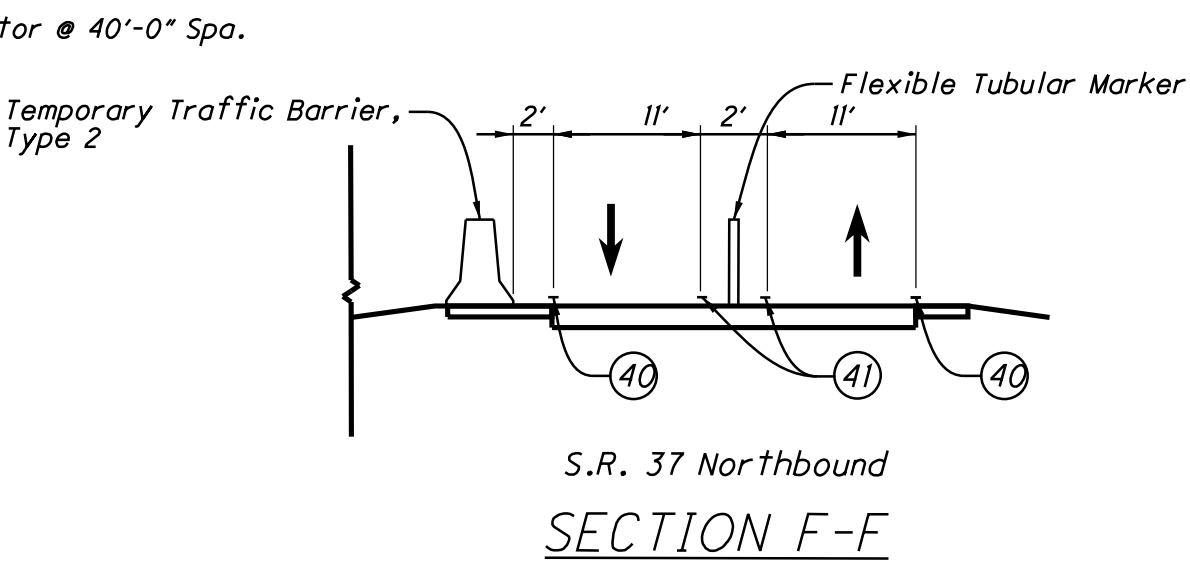
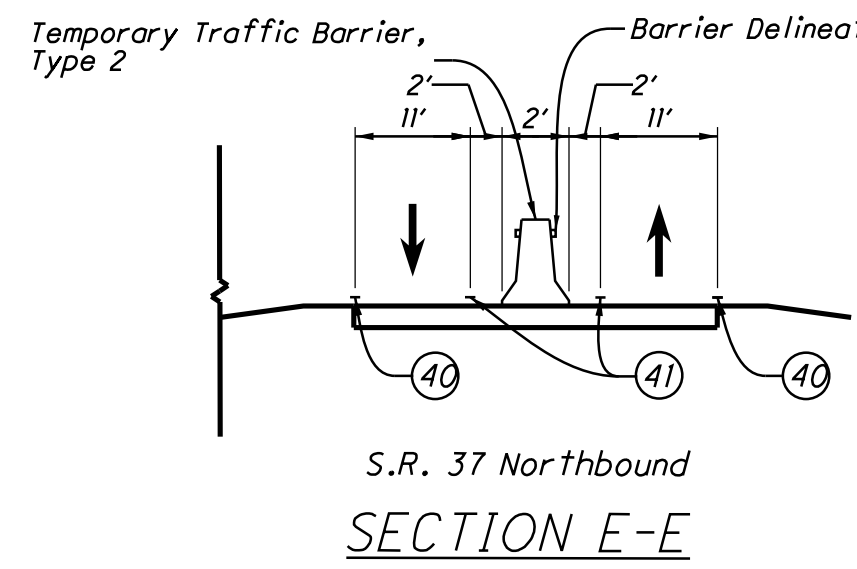
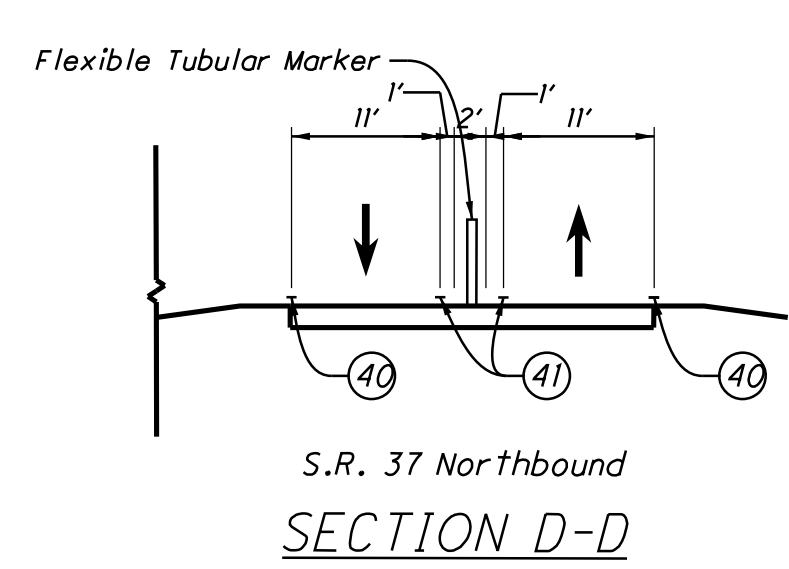
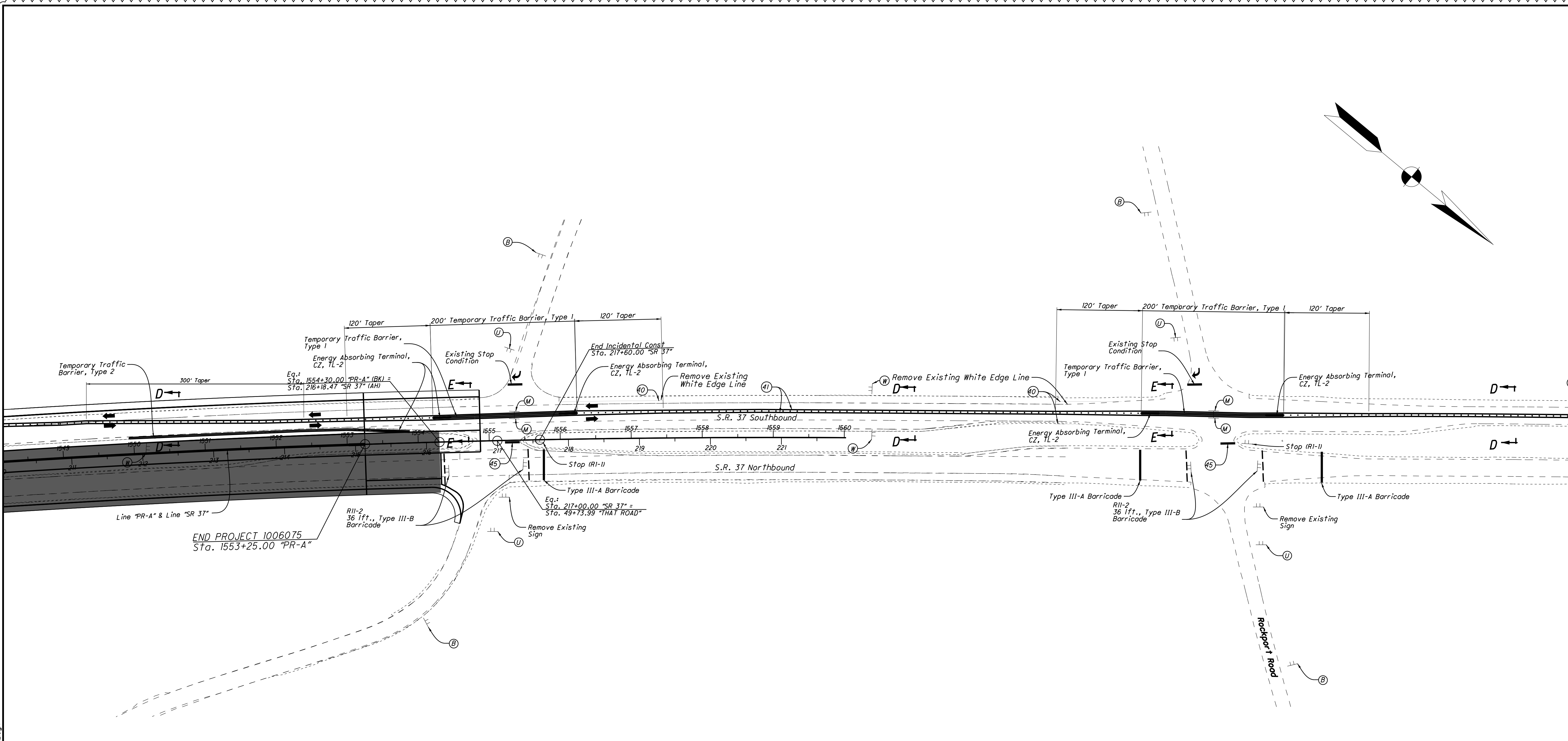
HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-22
CONTRACT IR-33742	SHEETS 43 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:41:48 AM
LOCATION: 1006075

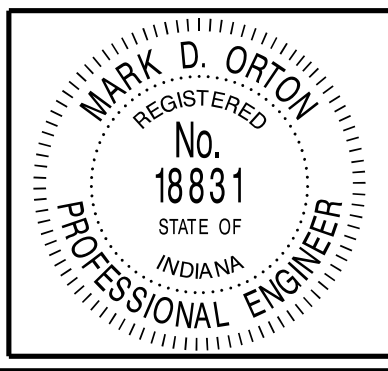
DATE: 10/1/2012
TIME: 10:41:48 AM
DRAWN: KCH

PROJECT: SR 37 INTERSECTION WITH SR 37
SHEET: 44 OF 173
CONTRACT: IR-33742

REVISIONS: 09/25/12 - Miscellaneous revisions



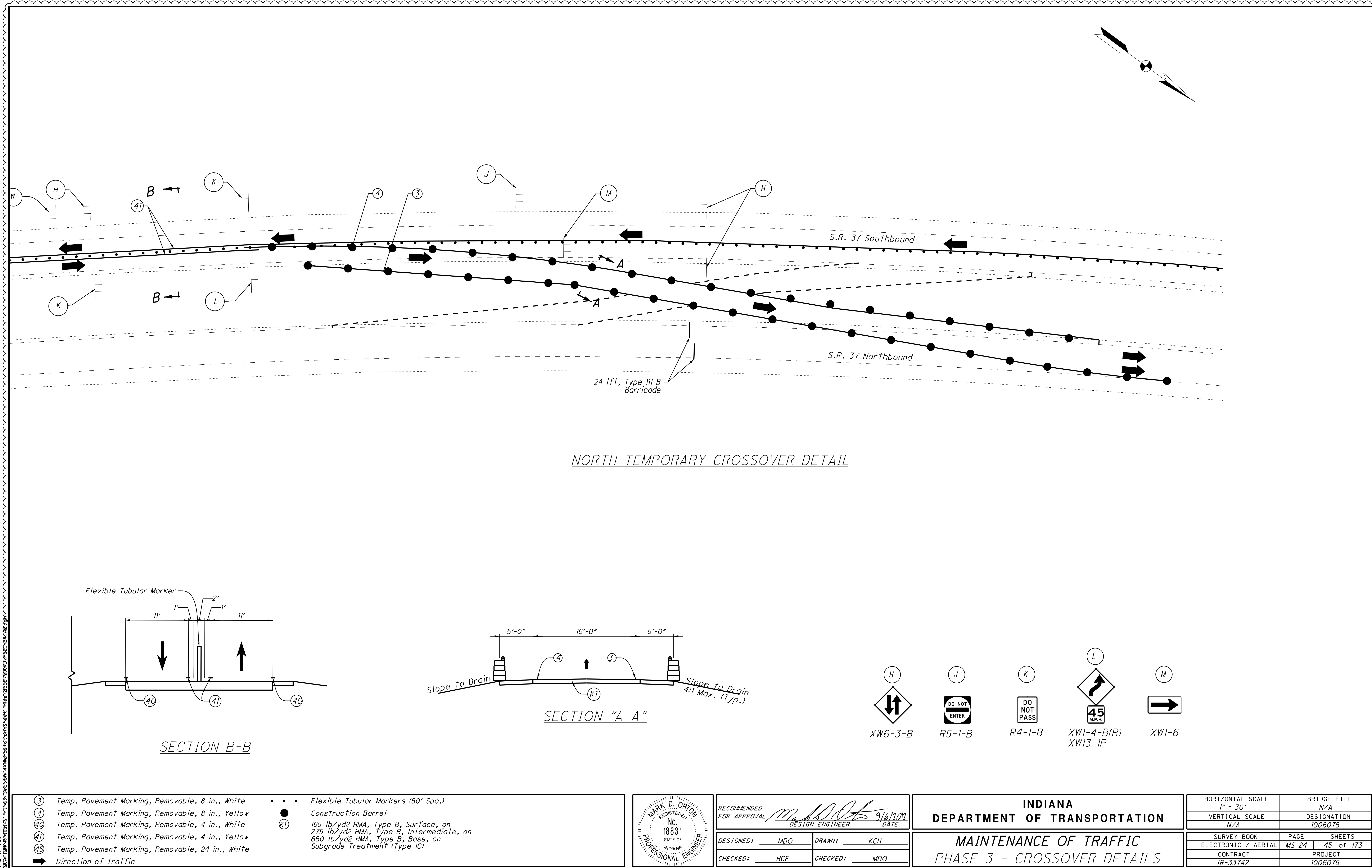
	Area under construction	Flexible Tubular Markers (50' Spa.)
(40)	Temp. Pavement Marking, Removable, 4 in., White	
(41)	Temp. Pavement Marking, Removable, 4 in., Yellow	
(45)	Temp. Pavement Marking, Removable, 24 in., White	
	Direction of Traffic	



RECOMMENDED FOR APPROVAL		DATE: 9/6/10
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 3 - INTERSECTION DETAILS

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-23
CONTRACT IR-33742	SHEETS 44 of 173
	PROJECT 1006075

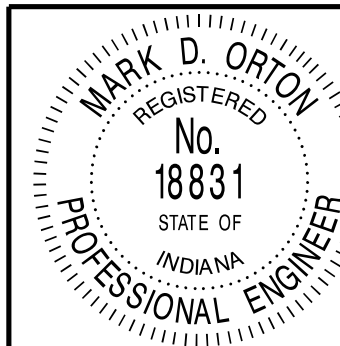


DATE: 10/1/2012
TIME: 10:41:50 AM
DRAWN BY: MDO

09/25/12 - Miscellaneous revisions

DATE: 10/1/2012
TIME: 10:41:51 AM
C:\CADD\1006075\1006075.dwg

Area under construction



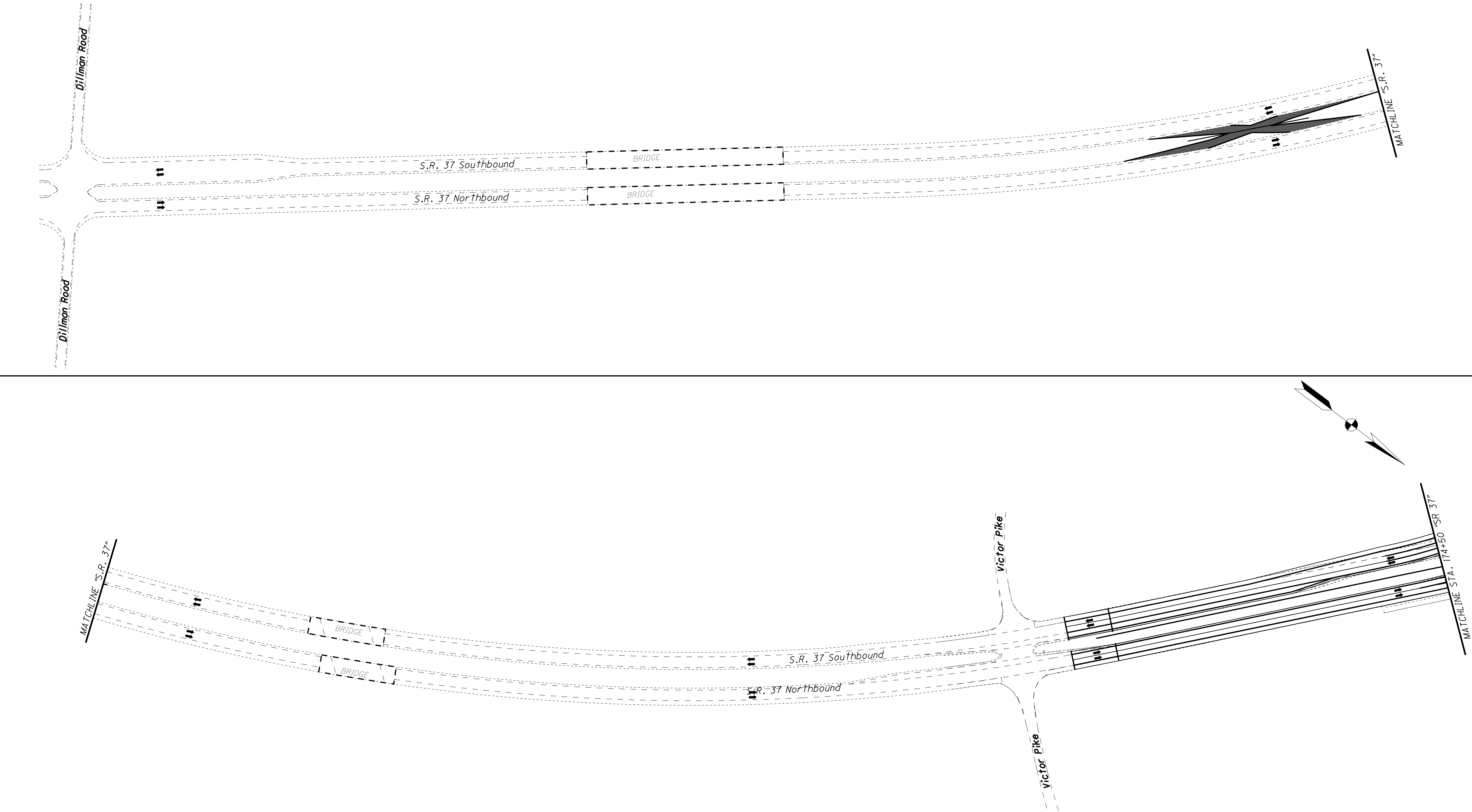
RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

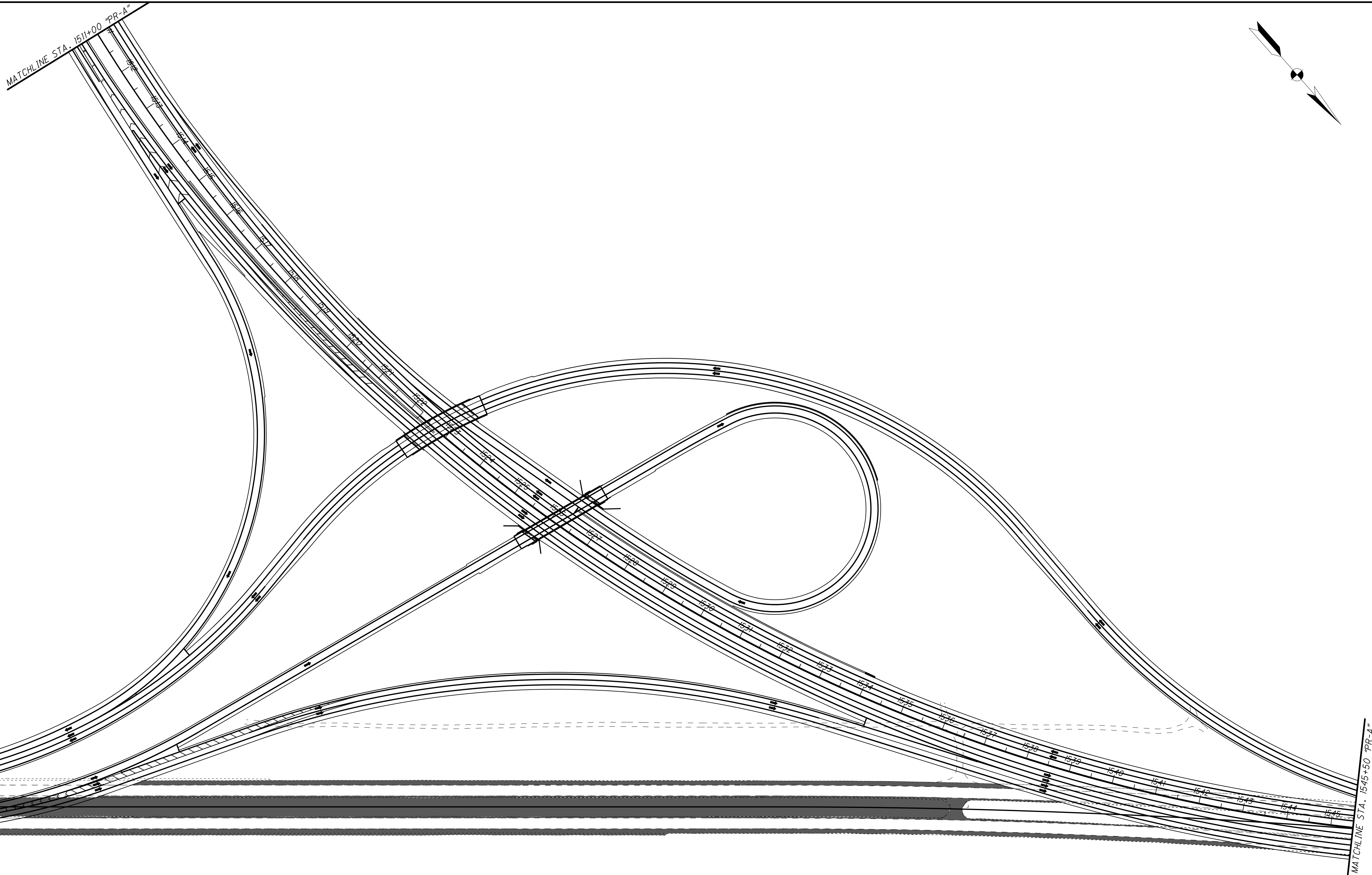
DESIGNED: MDO DRAWN: KCH
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE 4

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-25
CONTRACT IR-33742	SHEETS 46 of 173
	PROJECT 1006075





MATCHLINE STA. 174+50 "SR 37"

MATCHLINE STA. 1545+50 "PR-A"

Area under construction

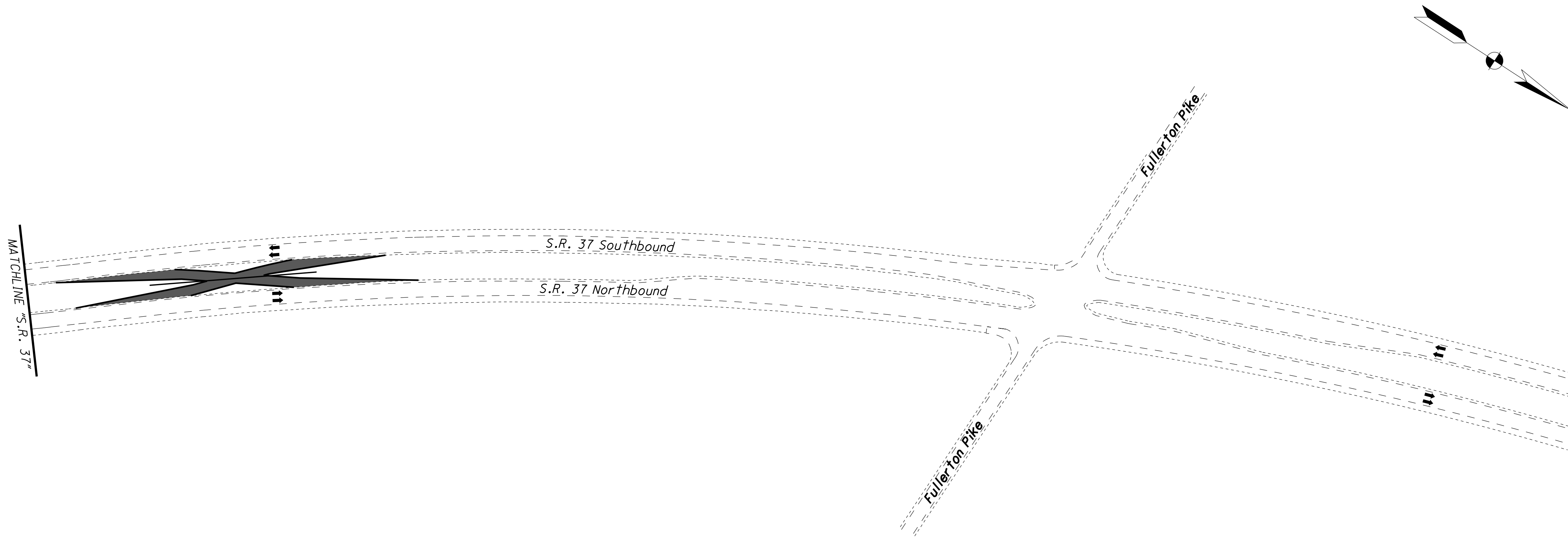
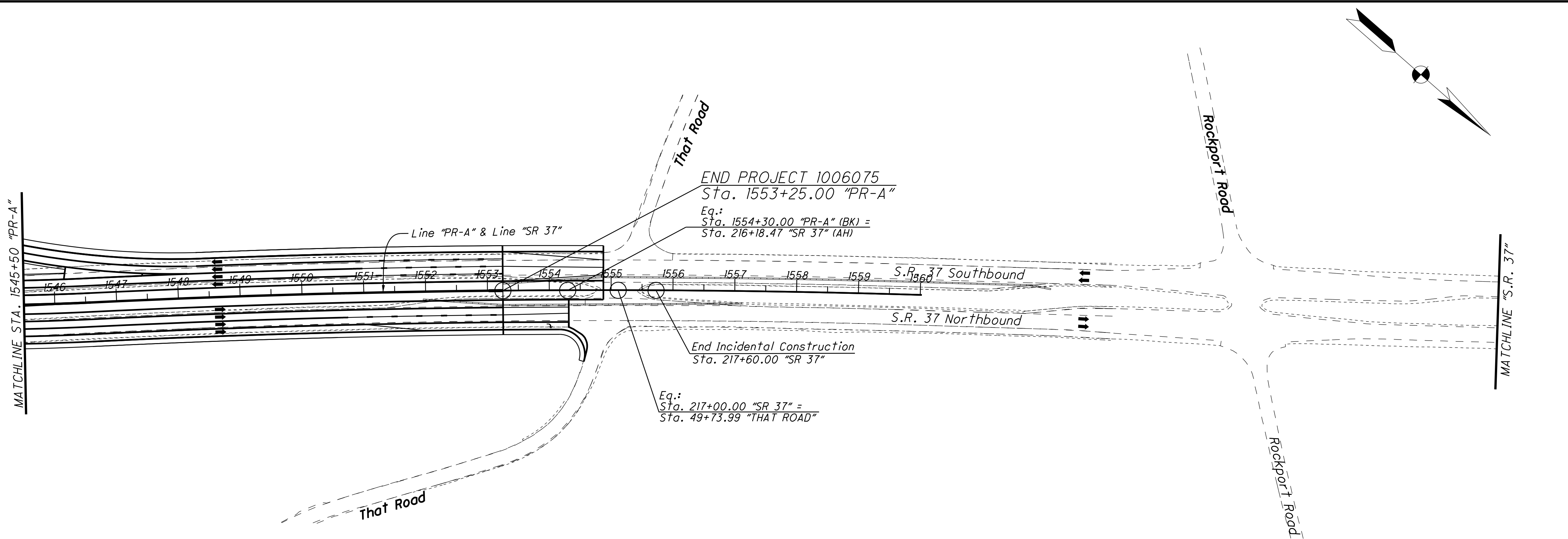
MARK D. ORTON
REGISTERED
No. 18831
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL
DESIGNED: MDO
CHECKED: HCF
DRAWN: KCH
CHECKED: MDO
DATE: 9/6/10

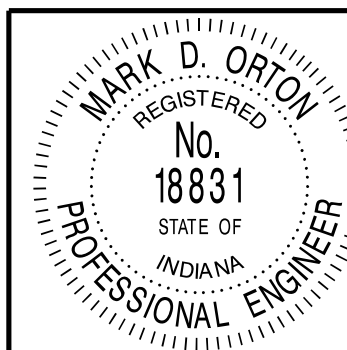
INDIANA
DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
PHASE 4

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-26
CONTRACT IR-33742	SHEETS 47 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:41:52 AM
C:\CADD\1006075\1006075.dwg



Area under construction

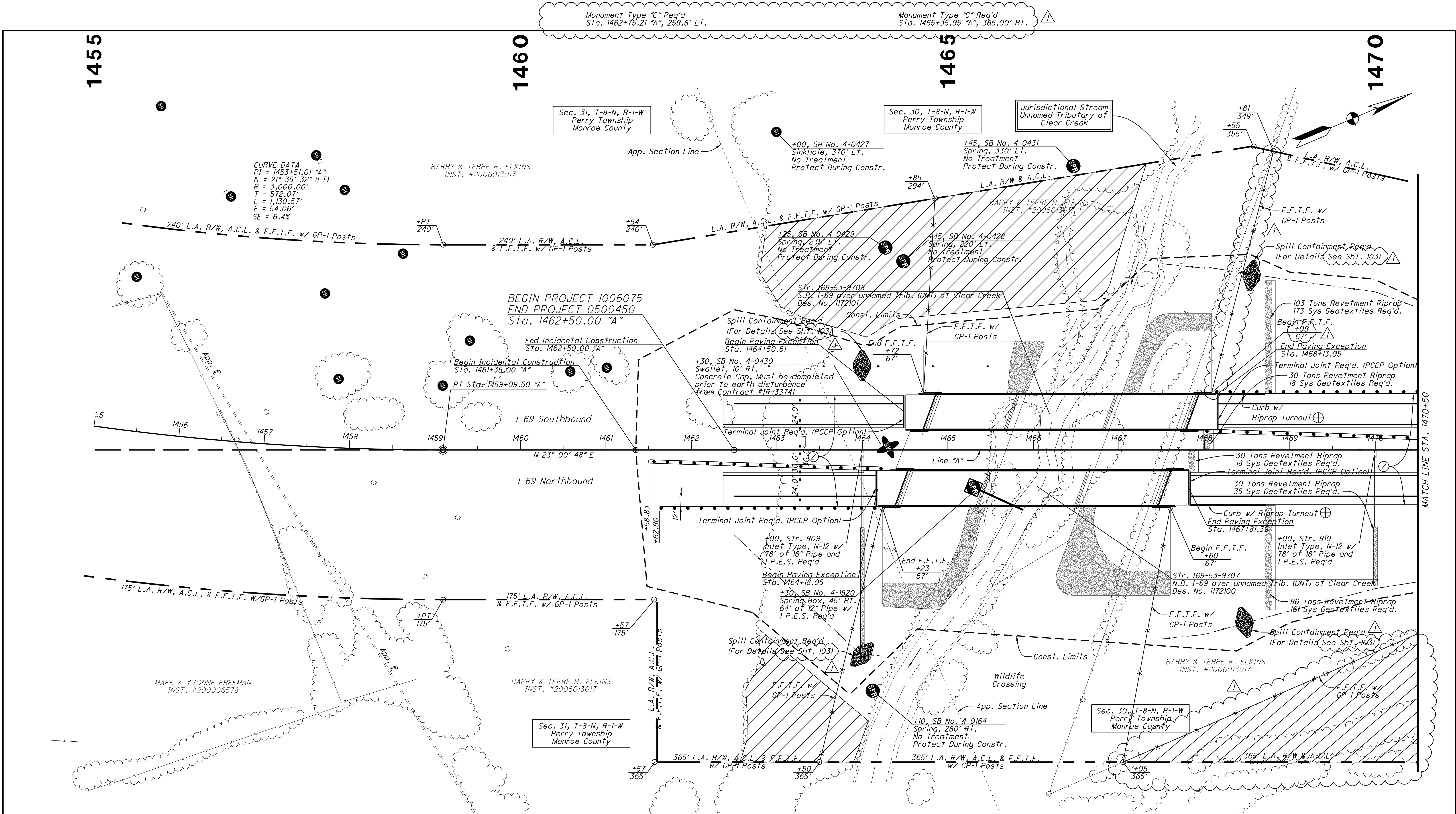


RECOMMENDED FOR APPROVAL	<i>M. D. Orton</i>	DATE	9/6/10
DESIGNED:	MDO	DRAWN:	KCH
CHECKED:	HCF	CHECKED:	MDO

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE 4

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MS-27
CONTRACT IR-33742	SHEETS 48 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:41:54 AM
LOCATION: I:\PROJECTS\1006075\1006075.dwg



Note:
All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "A" except as noted.
Line "A" to be constructed.

LEGEND	
- Begin L.A. R/W	See TY-07 for Curb and Riprap Turnout Details.
- End L.A. R/W	
Sinkhole	Swallet
Spring	Do Not Disturb Trees
	See Typical Sections for Construction Materials

For Sinkhole Treatment Details See Sheet 100.
For Spring Box Details See Sheet 103.

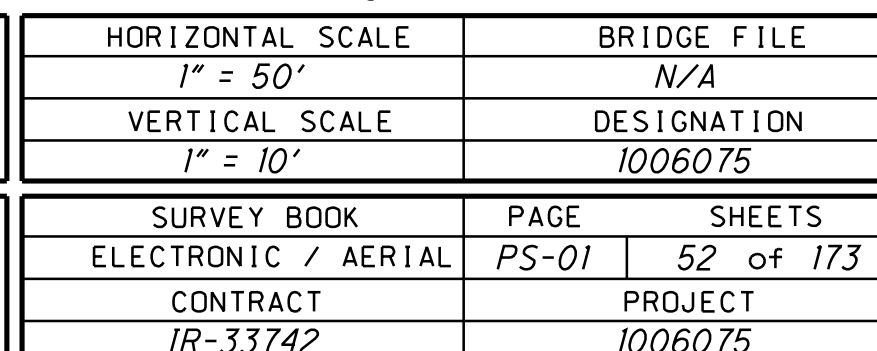


RECOMMENDED FOR APPROVAL		DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
PLAN SHEET
STA. 1455+00 TO STA. 1470+50 "A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-01
CONTRACT IR-33742	SHEETS 51 of 173
	PROJECT 1006075

*Glenview Drive earthwork is included in mainline I-69 quantities.
The above Earthwork Balance does not include benching.*



1 09/25/12 - Miscellaneous revisions

Monument Type "C" Req'd
P.C. Sta. 1471+42.94 "A"

Monument Type "C" Req'd
Sta. 1476+50.00 "A", 395.6' Rt.

Monument Type "C" Req'd
Sta. 1478+71.54 "A", 290.0' Rt.

Monument Type "D" Req'd
P.I. Sta. 1478+85.59 "A", 34.4' Lt.

1475

1480

1485

Sec. 30, T-8-N, R-1-W
Perry Township
Monroe County

BARRY & TERRE R. ELKINS
INST. #2006013017

JASON MATTHEW WITHROW
& GEORGE HUTTON
INST. #2011002036

BARRY & TERRE R. ELKINS
INST. #2006013017

+45, SH No. 4-0088
Sinkhole, 390' LT.
No Treatment
Protect During Const.

300' L.A. R/W, A.C.L. &
F.F.T.F. w/ GP-1 Posts
+58
300'

+15, SB No. 4-0089
Cave, 330' LT.
No Treatment
Protect During Const.

Eq.: L.A. R/W, A.C.L. & F.F.T.F. w/ GP-1 Posts

POC Sta. 1483+90.06 "A" =
POT Sta. 6+76.58 "PR-T-134"

+40, SB No. 4-0098
Sinking Stream, 45' LT.
Aggregate Cap
Geomembrane Ditch

Within Existing Channel Per
Fill Detail this page and
Const. Sequence in Spec. Prov.

+90, Str. No. 134 (I-69-53-9709)
I-69 over Unnamed Tributary of
Clear Creek
550' of 28' x 10' Precast 3-Sided Arch
Des. No. 1172102

+75, SH No. 4-0097
Sinkhole, 170' LT.
Aggregate Cap
Geomembrane Ditch

7 Tons Revetment Riprap
8 Sys Geotextiles Req'd.

+00, Str. 913
Inlet Type, N-12 w/
78' of 18" Pipe and
I.P.E.S. Req'd

Special Fill Req'd
See Special Channel
Fill Detail this page
and Const. Sequence per
Special Provision

PI Sta. 1478+85.59 "A"
 $\Delta = 10^\circ 36' 26"$ (RT)

Const. Limits

+00, Str. 912
Inlet Type, N-12 w/
100' of 18" Pipe and
I.P.E.S. Req'd

6 Tons Revetment Riprap
8 Sys Geotextiles Req'd.

+00, Str. 911
Inlet Type, N-12 w/
78' of 18" Pipe and
I.P.E.S. Req'd

L.A. R/W, A.C.L. & F.F.T.F. w/ GP-1 Posts

245' L.A. R/W, A.C.L. & F.F.T.F. w/ GP-1 Posts

I-69 Southbound

I-69 Northbound

Line "A"

PC Sta. 1471+42.94 "A"

+60, SH No. 4-0100
Sinkhole, 25' Rt.
Concrete Cap

Visual Tree Screen Required
Sta. 1474+00 to Sta. 1493+00 "A"

PI Sta. 14+10.15
PR-T-134

PC Sta. 13+71.40
PR-T-134

F.F.T.F. w/
GP-1 Posts

PC Sta. 9+50.17
PR-T-134

PT Sta. 10+34.26
PR-T-134

Visual Tree Screen Required
Sta. 1474+00 to Sta. 1493+00 "A"

Line "PR-T-134"

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

PC Sta. 3+39.75
PR-T-134

Note:
All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "A" except as noted.
Line "A" to be constructed.

LEGEND

SH Sinkhole

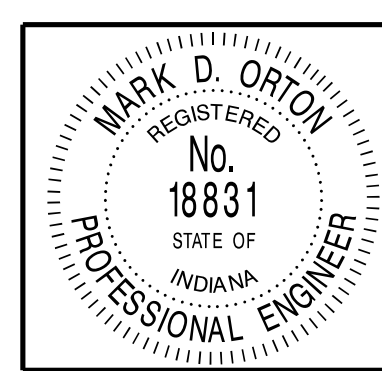
SS Sinking Stream

CV Cave

Do Not Disturb Trees

See Typical Sections for Construction Materials

For Sinkhole Treatment Details See Sheet 100.
For Spring Box Details See Sheet 103.
For Visual Tree Screening Details See Sheet 16.
For Stream Mitigation See Sheet 99 & 132.
For Construction Sequencing requirements for
stream mitigation & Str. 134 Construction. See
Special Provisions



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER: MDO

CHECKED: HCF

DATE: 9/6/2012

DRAWN: KCH

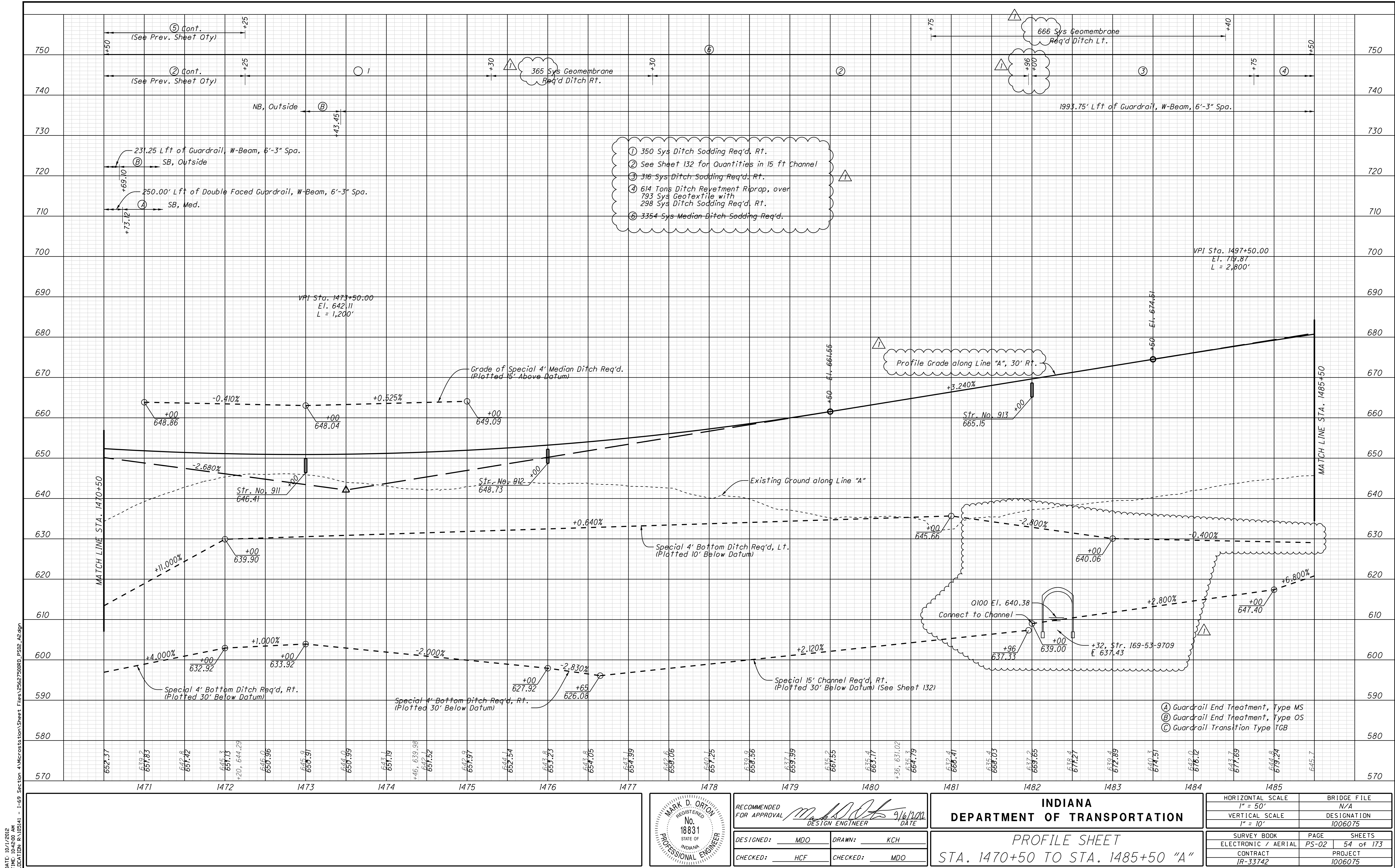
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

STA. 1470+50 TO STA. 1485+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	N/A
VERTICAL SCALE	DESIGNATION
NONE	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	53 of 173
CONTRACT	PROJECT
IR-33742	1006075



Monument Type "C" Req'd
P.T. Sta. 1486+23.99 "A"

Monument Type "C" Req'd
P.C. Sta. 1494+13.78 "A"

Monument Type "C" Req'd
P.C. Sta. 1495+09.39 "PR-A"

1490

1495

1500

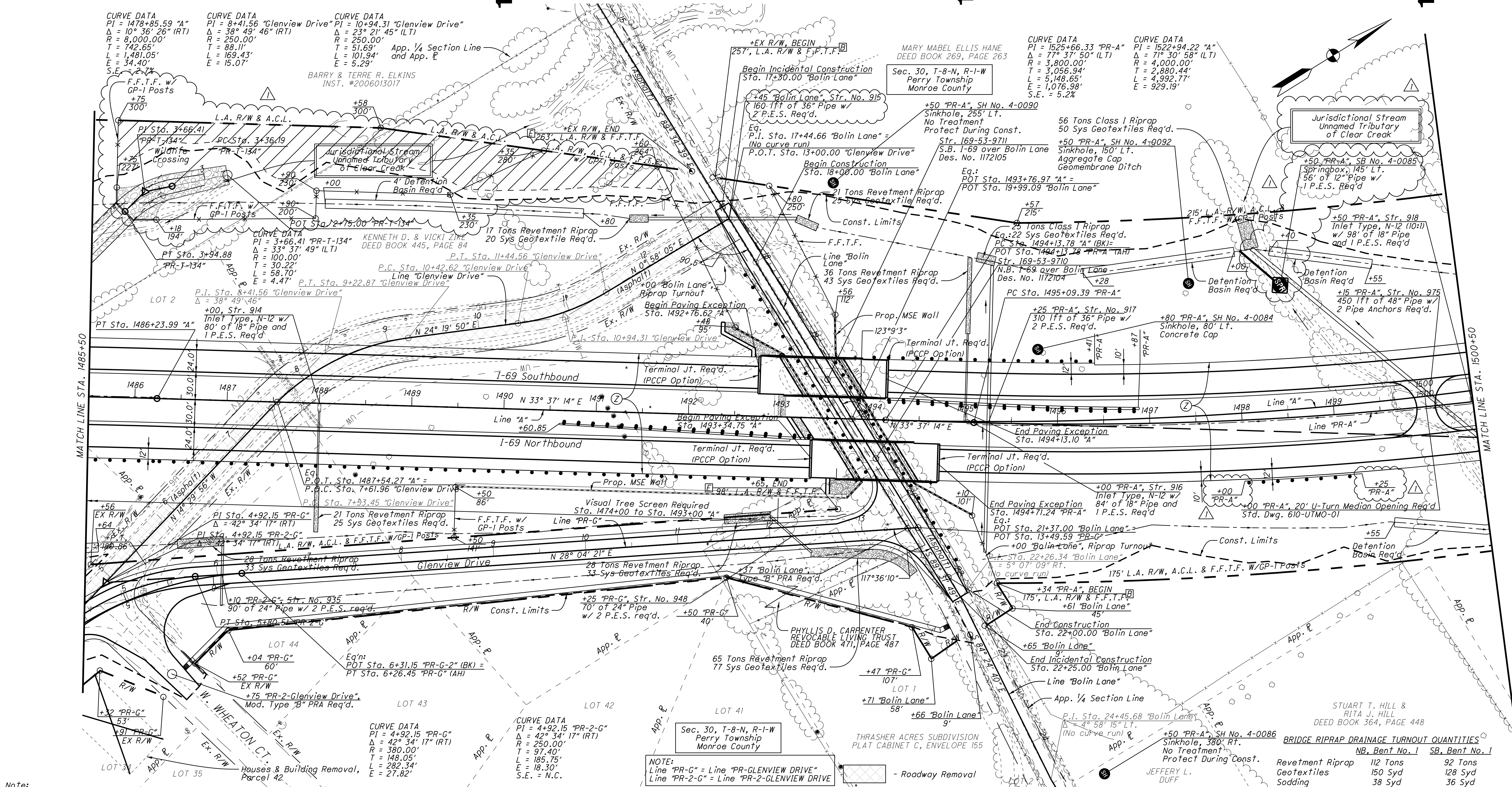
CURVE DATA
PI = 1478+85.59 "A"
Δ = 10° 36' 26" (RT)
R = 8,000.00'
T = 1,481.05'
L = 34.40'
S.E. = 2.7%

CURVE DATA
PI = 8+41.56 "Glenview Drive"
Δ = 38° 49' 46" (RT)
R = 250.00'
T = 88.11'
L = 169.43'
E = 15.07'

CURVE DATA
PI = 10+94.31 "Glenview Drive"
Δ = 23° 21' 45" (LT)
R = 250.00'
T = 51.69'
L = 101.94'
E = 5.29'

CURVE DATA
PI = 1525+66.33 "PR-A"
Δ = 17° 37' 50" (LT)
R = 3,800.00'
T = 3,056.94'
L = 5,148.65'
E = 1,076.98'
S.E. = 5.2%

CURVE DATA
PI = 1522+94.22 "A"
Δ = 71° 30' 58" (LT)
R = 4,000.00'
T = 2,880.44'
L = 4,992.77'
E = 929.19'



Note:
All R/W on this sheet to be as shown.
All R/W on this sheet described from Line "A" except as noted.
Line "A" to be constructed to Sta. 1494+13.78, and then Line "PR-A" to be constructed.

LEGEND	
	Begin L.A. R/W
	End L.A. R/W
	Sinkhole
	Spring
	See Typical Sections for Construction Materials

For Sinkhole Treatment Details See Sheet 100.
For Spring Box Details See Sheet 103.
For Visual Tree Screening Details, See Sheet 16.
PR-G = PR-Glenview Drive
PR-2-G = PR-2-Glenview Drive



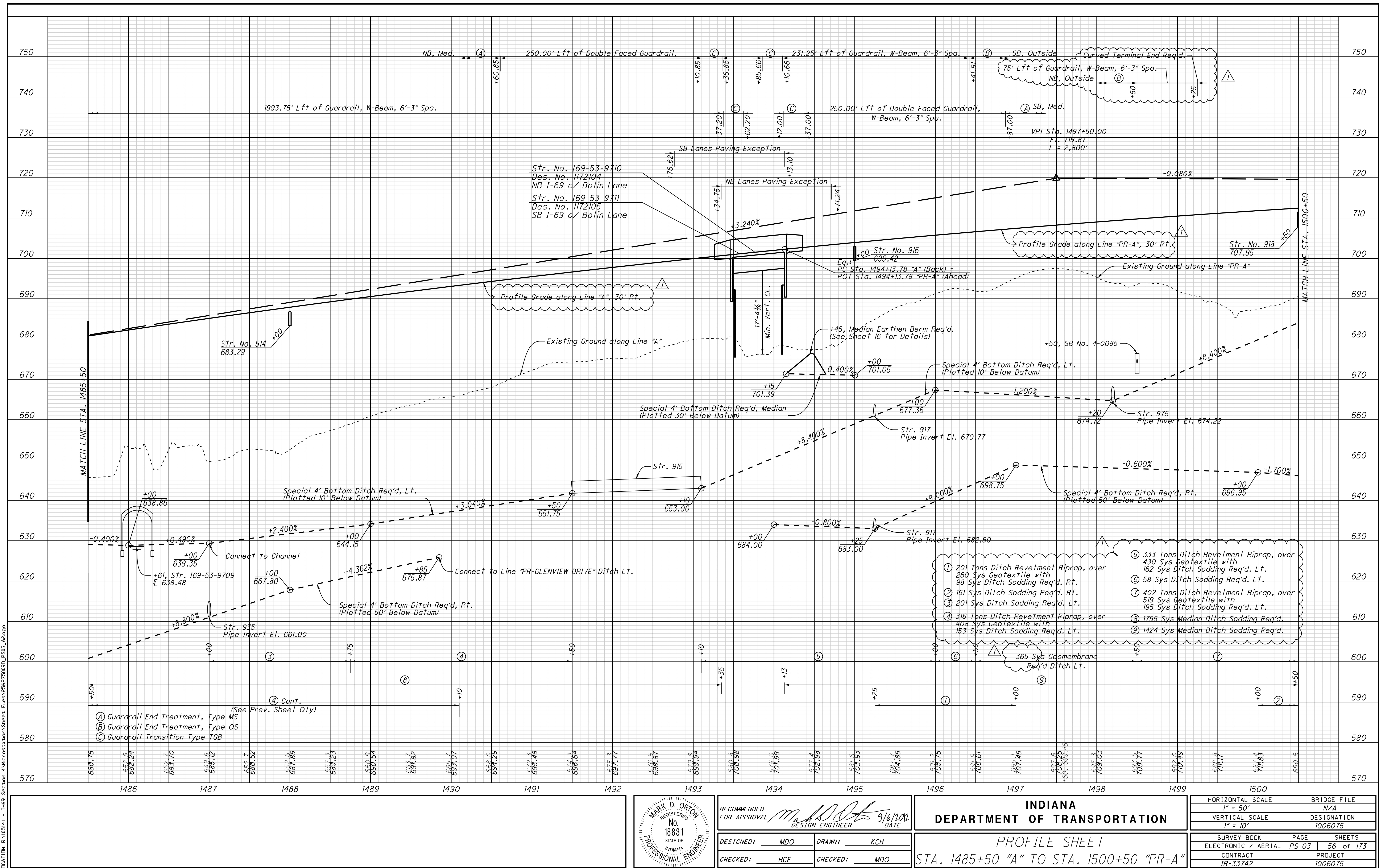
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

STA. 1485+50 "A" TO STA. 1500+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-03
CONTRACT IR-33742	SHEETS 55 of 173
	PROJECT 1006075



Monument Type "C" Req'd
P.O.C. Sta. 1504+00.00 "PR-A"

Monument Type "C" Req'd
P.O.C. Sta. 1514+00.00 "PR-A"

1505

1510

1515

CURVE DATA
PI = 1525+66.33 "PR-A"
Δ = 17° 37' 50" (LT)
R = 3,800.00'
T = 3,056.94'
L = 5,148.65'
E = 1,076.98'
S.E. = 5.2%

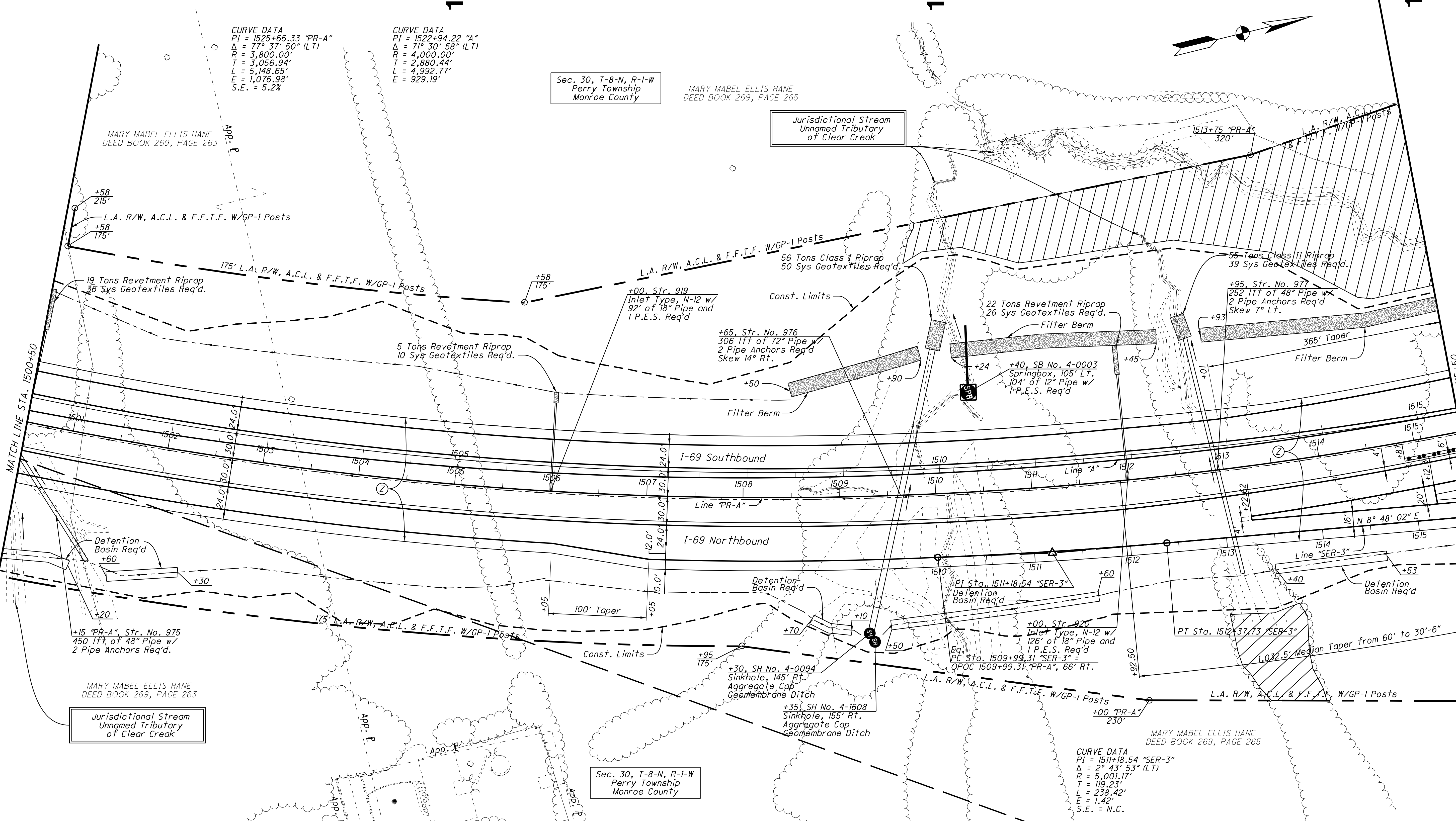
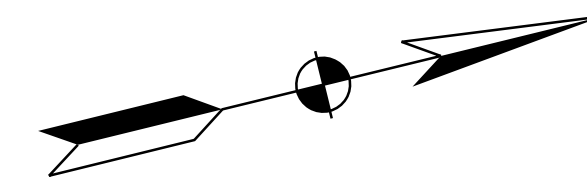
CURVE DATA
PI = 1522+94.22 "A"
Δ = 71° 30' 58" (LT)
R = 4,000.00'
T = 2,880.44'
L = 4,992.77'
E = 929.19'

Sec. 30, T-8-N, R-1-W
Perry Township
Monroe County

MARY MABEL ELLIS HANE
DEED BOOK 269, PAGE 265

Jurisdictional Stream
Unnamed Tributary
of Clear Creek

MARY MABEL ELLIS HANE
DEED BOOK 269, PAGE 263



Sec. 30, T-8-N, R-1-W
Perry Township
Monroe County

MARY MABEL ELLIS HANE
DEED BOOK 269, PAGE 265

CURVE DATA
PI = 1511+18.54 "SER-3"
Δ = 2° 43' 53" (LT)
R = 5,001.17'
T = 119.23'
L = 238.42'
E = 1.42'
S.E. = N.C.

Note:
All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "A" except as noted.

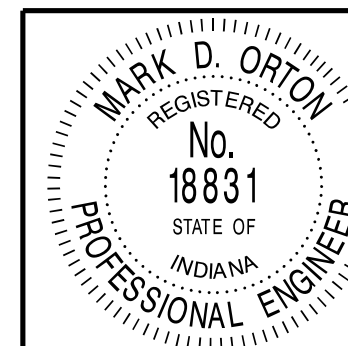
All callouts for improvements are loc
ated from Line "PR-A" unless otherwise
noted.

Line "PR-A" to be constructed.

LEGEND

- SH Sinkhole
- SPR Spring
- Do Not Disturb Trees
- See Typical Sections for Construction Materials

For Sinkhole Treatment Details See Sheet 100.
For Spring Box Details See Sheet 103.



RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER
DATE 9/6/10
DESIGNED: MDO
DRAWN: KCH
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
STA. 1500+50 TO STA. 1515+50 "PR-A"

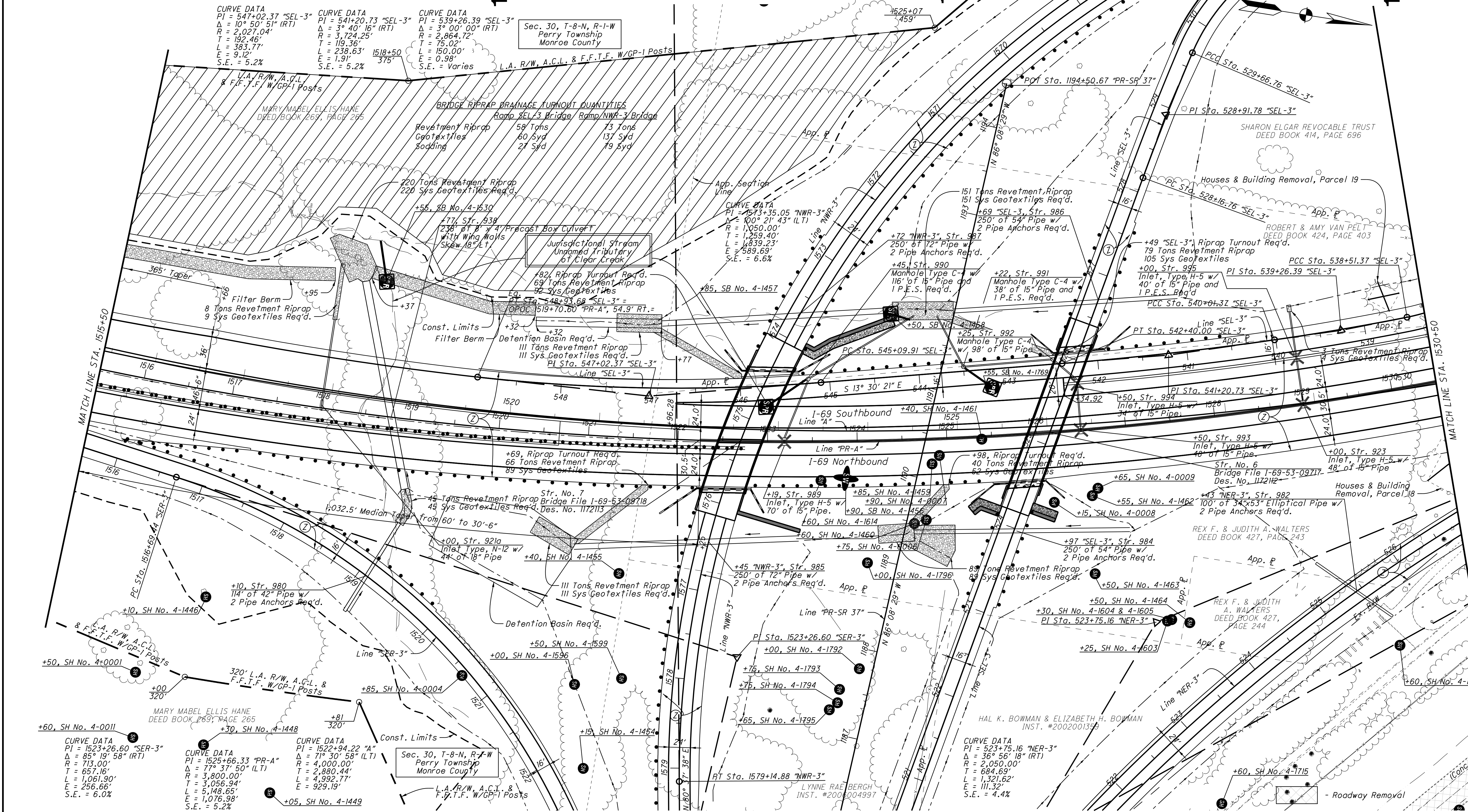
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-04
CONTRACT IR-33742	SHEETS 57 of 173
	PROJECT 1006075

Monument Type "C" Req'd Sta. 1521+31.53 "PR-A", 320' Rt. Monument Type "C" Req'd Sta. 1522+28.88 "PR-A", 436.1' Lt. Monument Type "D" Req'd P.O.C. Sta. 1524+00.00 "PR-A" P.I. Sta. 1525+66.33 "PR-A", 1,076.9' Rt.

1520

1525

1530



LEGEND

- SH Sinkhole
- SPR Spring
- SW Swallet
- Do Not Disturb Trees
- See Typical Sections for Construction Materials (From 1462+50 "A" to 1522+25 "PR-A", use Rural Typical Sections. From 1522+25 "PR-A" to 1553+25 "PR-A", use Urban Typical Sections.)

For Sinkhole Treatment Details See Sheet 100.
For Spring Box Details See Sheet 103.
For Karst Treatments See Sheet 149.

Note:
All R/W on this sheet to be as shown.
All R/W on this sheet described from Line "A" except as noted.
Line "PR-A" to be constructed.

MARK D. ORTON
REGISTERED
No. 18831
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *[Signature]* 9/6/2012 DATE
DESIGNED: MDO DRAWN: KCH
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
STA. 1515+50 TO STA. 1530+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-05
CONTRACT IR-33742	SHEETS 59 of 173
	PROJECT 1006075

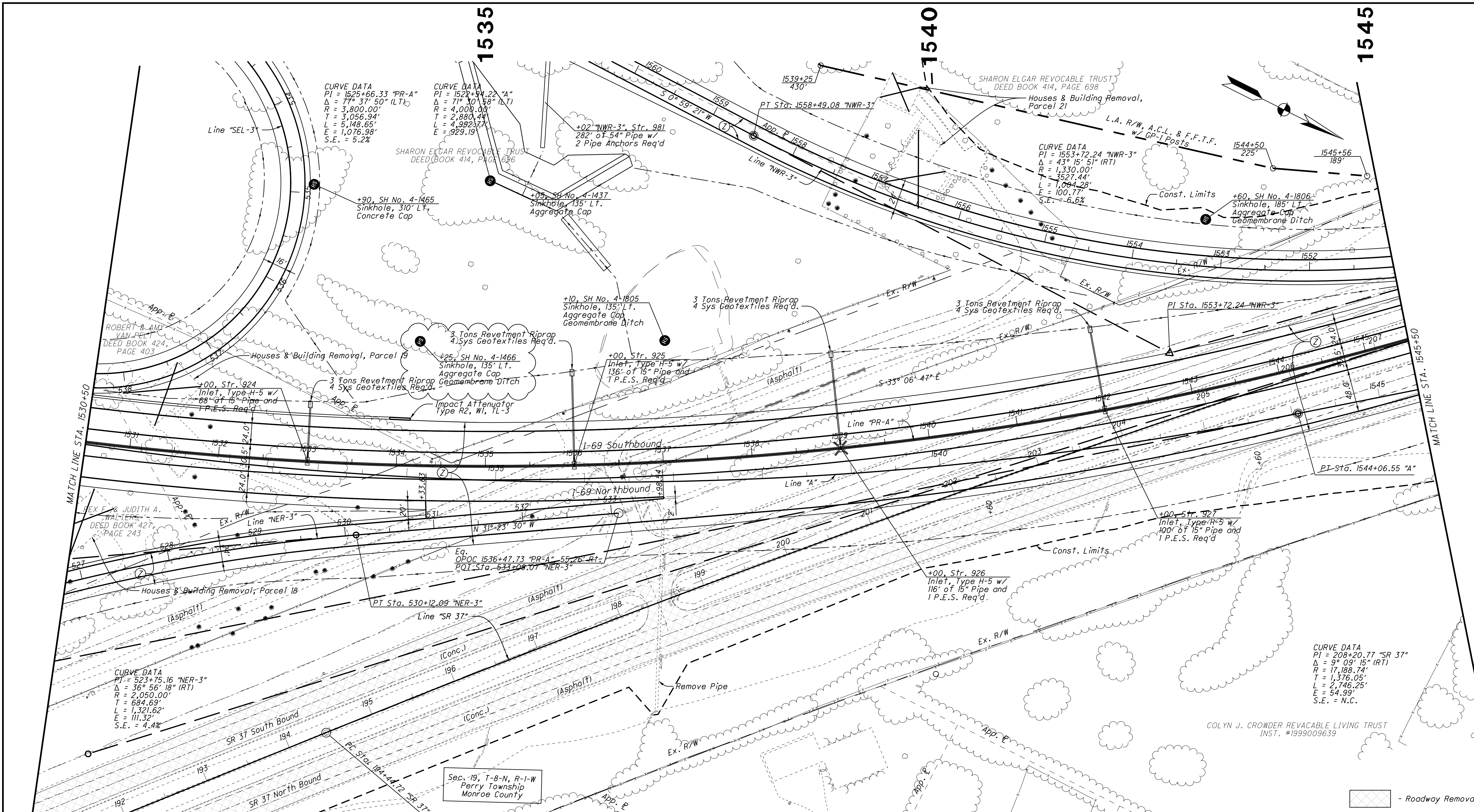
Monument Type "D" Req'd
P.O.C. Sta. 1534+00.00 "PR-A"

Monument Type "D" Req'd
P.O.C. Sta. 1544+00.00 "PR-A"

1535

1540

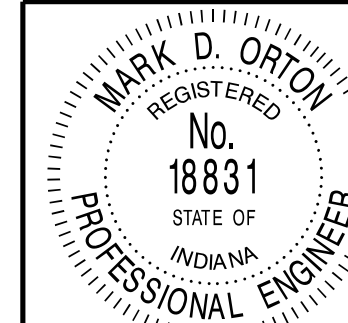
1545



Notes:
All R/W on this sheet to be as shown.
All R/W on this sheet described from Line "A" except as noted.
Line "PR-A" to be constructed.

LEGEND
SH Sinkhole
② See Typical Sections for Construction Materials

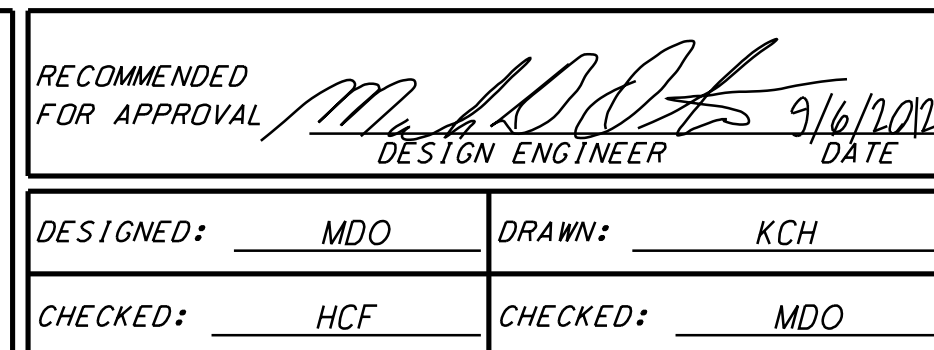
For Sinkhole Treatment Detail See Sheet 100.



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE 9/6/10
DESIGNED: MDO
DRAWN: KCH
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION
PLAN SHEET
STA. 1530+50 TO STA. 1545+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-06
CONTRACT IR-33742	SHEETS 61 of 173
	PROJECT 1006075



PROFILE SHEET STA. 1530+50 TO STA. 1545+50 "PR-A"

△ 09/25/12 - Miscellaneous revisions



Monument Type "D" Req'd
P.C.C. Sta. 1546+58.04 "PR-A"

Monument Type "C" Req'd
Sta. 1546+93.76 "PR-A", 170.0' Lt.

Monument Type "C" Req'd
Sta. 1550+66.29 "PR-A", 175.0' Rt.

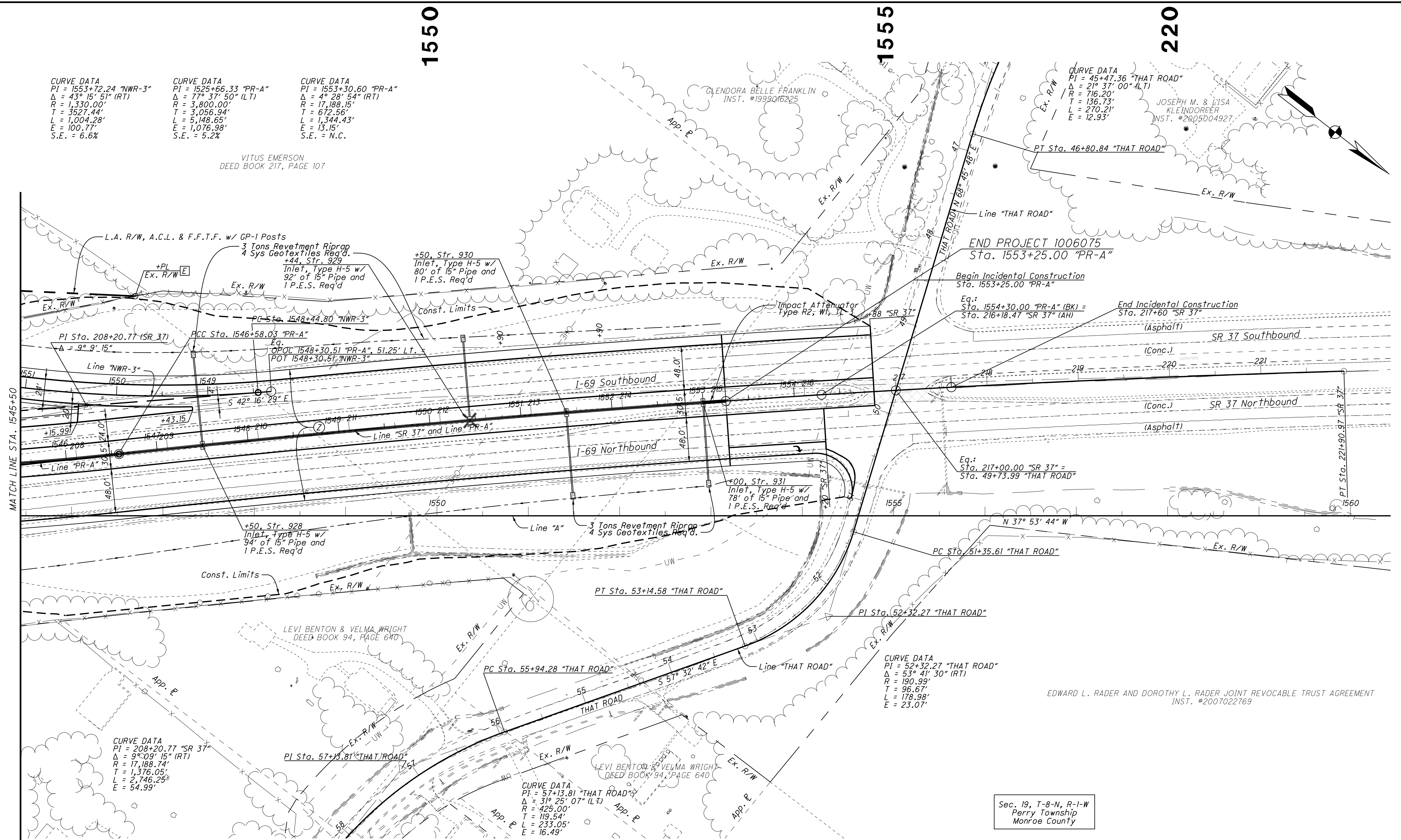
Monument Type "D" Req'd
P.O.C. Sta. 1553+25.00 "PR-A"

CURVE DATA
PI = 1553+72.24 "NWR-3"
Δ = 43° 15' 51" (RT)
R = 1,330.00'
T = 3527.44'
L = 1,004.28'
E = 100.77'
S.E. = 6.6%

CURVE DATA
PI = 1525+66.33 "PR-A"
Δ = 77° 37' 50" (LT)
R = 3,800.00'
T = 3,056.94'
L = 5,148.65'
E = 1,076.98'
S.E. = 5.2%

CURVE DATA
PI = 1553+30.60 "PR-A"
Δ = 4° 28' 54" (RT)
R = 17,188.15'
T = 672.56'
L = 1,344.43'
E = 13.15'
S.E. = N.C.

VITUS EMERSON
DEED BOOK 217, PAGE 107



EDWARD L. RADER AND DOROTHY L. RADER JOINT REVOCABLE TRUST AGREEMENT
INST. #2007022769

Sec. 19, T-8-N, R-1-W
Perry Township
Monroe County

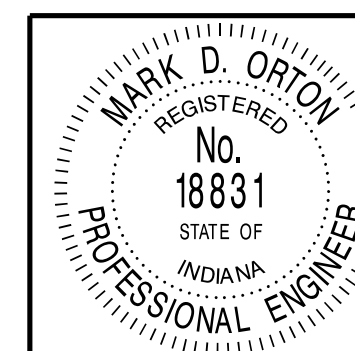
Note:
All R/W on this sheet to be as shown.

All R/W on this sheet described from
Line "A" except as noted.

Line "PR-A" to be constructed.

LEGEND

② See Typical Sections for Construction Materials



RECOMMENDED
FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

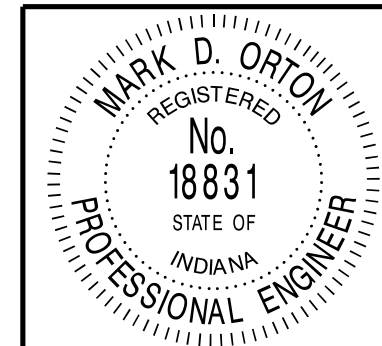
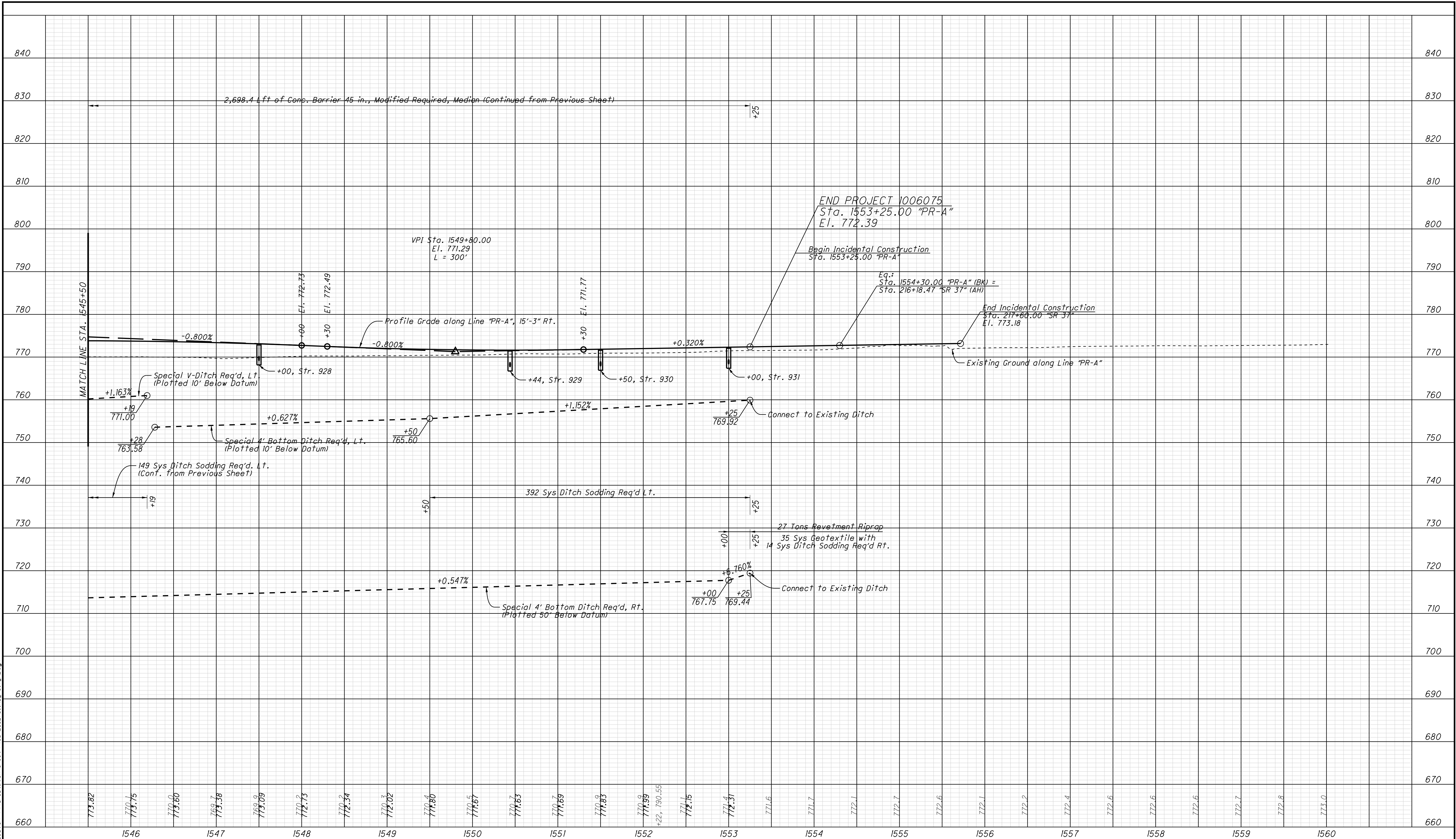
DESIGNED: MDO DRAWN: KCH
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
STA. 1545+50 TO STA. 1560+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-07
CONTRACT IR-33742	SHEETS 63 of 173
	PROJECT 1006075

\\nas01\proj\1006075\1006075.dgn
TIME: 10/25/12 AM
LOCATION: R:\1006075\1006075.dgn

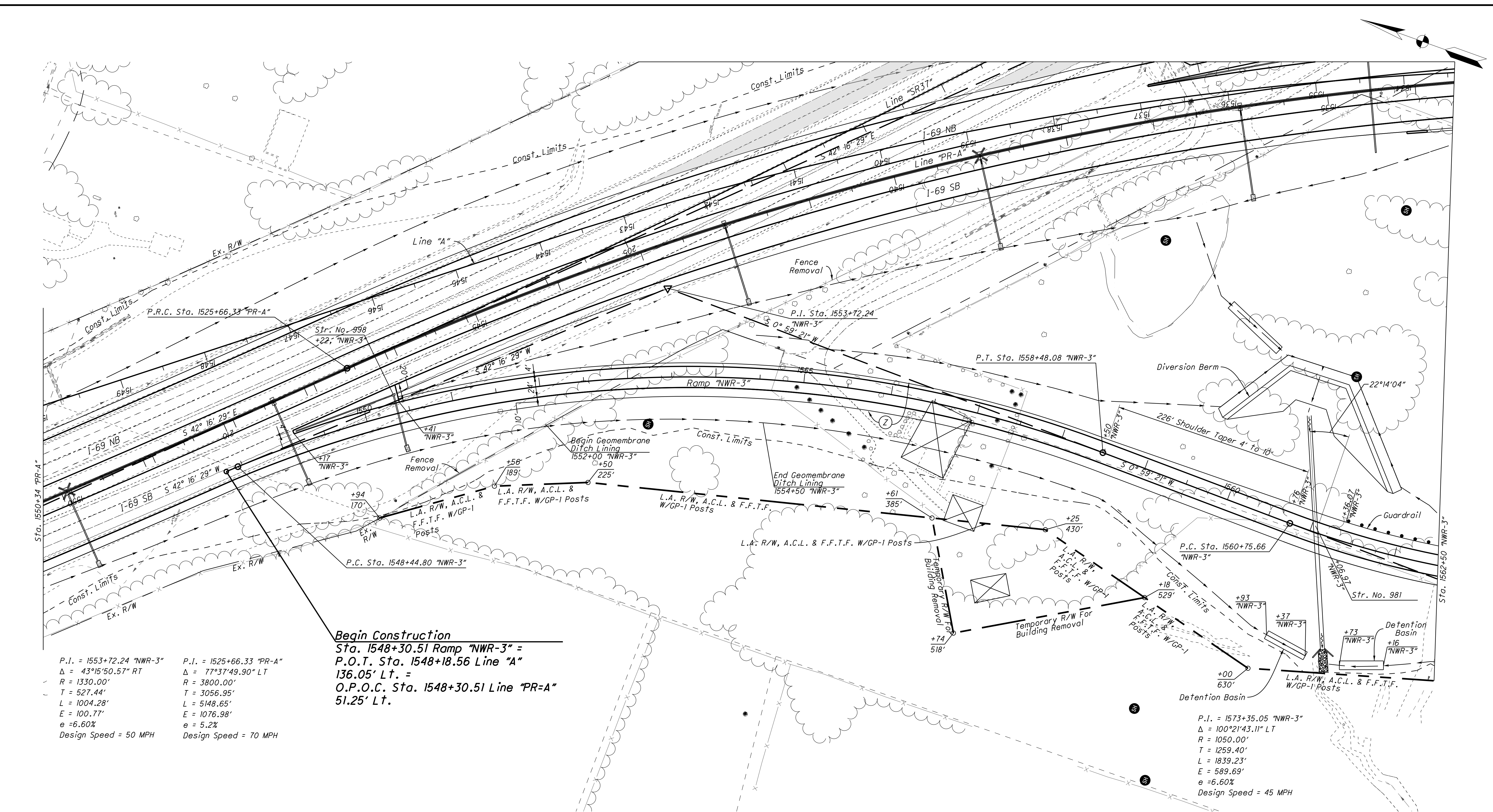


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET	
STA. 1545+50 TO STA. 1560+50 "PR-A"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 10'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-07
CONTRACT IR-33742	SHEETS 64 of 173
PROJECT 1006075	

DATE: 10/3/2012
TIME: 10:44:48 AM
LOCATION: N:\Projects\25627500\Drawings\4 Transp\CaddRoad\S917 Plan and Profiles Sheets\25627500PP01-S98.dgn



P.I. = 1553+72.24 "NWR-3"	P.I. = 1525+66.33 "PR-A"
Δ = 43°15'50.57" RT	Δ = 77°37'49.90" LT
R = 1330.00'	R = 3800.00'
T = 527.44'	T = 3056.95'
L = 1004.28'	L = 5148.65'
E = 100.77'	E = 1076.98'
e = 6.60%	e = 5.2%
Design Speed = 50 MPH	Design Speed = 70 MPH

Begin Construction
Sta. 1548+30.51 Ramp "NWR-3" =
P.O.T. Sta. 1548+18.56 Line "A"
136.05' Lt. =
O.P.O.C. Sta. 1548+30.51 Line "PR-A"
51.25' Lt.

P.I. = 1573+35.05 "NWR-3"
Δ = 100°21'43.11" LT
R = 1050.00'
T = 1259.40'
L = 1839.23'
E = 589.69'
e = 6.60%
Design Speed = 45 MPH

Notes:
All R/W On This Sheet To Be As Shown
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted
Limited Access R/W Requirements To Apply Where Indicated
See Sheet 149 For Karst Features Legend And Table

Legend	
	Building Removal, By Others
	See Typical Sections For Construction Materials
	Concrete Pavement Removal
For Drainage Structure Information See Detail Sheets 117-120	



RECOMMENDED FOR APPROVAL		9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
RAMP "NWR-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-08
CONTRACT IR-33742	SHEETS 65 of 173
	PROJECT 1006075

P.I. = 528+91.78 "SEL-3"
Δ = 3°00'00.26" RT
R = 2864.72'
T = 75.02'
L = 150.00'
E = 0.98'
e = 2.2%
Design Speed = 55 MPH

P.I. = 531+42.68 "SEL-3"
Δ = 78°34'50" RT
R = 215.00'
T = 175.91'
L = 294.87'
E = 62.80'
e = 8.0%
Design Speed = 55 MPH

P.I. = 534+37.55 "SEL-3"
Δ = 78°34'49" RT
R = 215.00'
T = 175.91'
L = 294.87'
E = 62.80'
e = 8.0%
Design Speed = 55 MPH

P.I. = 537+32.42 "SEL-3"
Δ = 78°34'49" RT
R = 215.00'
T = 175.91'
L = 294.87'
E = 62.80'
e = 8.0%
Design Speed = 55 MPH

P.I. = 539+26.39 "SEL-3"
Δ = 3° 00' 00" (RT)
R = 2864.72'
T = 75.02'
L = 150.00'
E = 0.98'
e = 2.0%
Design Speed = 55 MPH

P.I. = 541+20.73 "SEL-3"
Δ = 3° 40' 16" (RT)
R = 3724.25'
T = 119.36'
L = 238.63'
E = 1.91'
e = 5.2%
Design Speed = 55 MPH

P.I. = 547+02.37 "SEL-3"
Δ = 10° 50' 51" (RT)
R = 2027.04'
T = 192.46'
L = 383.77'
E = 9.12'
e = 5.2%
Design Speed = 55 MPH

P.I. = 1525+66.33 "PR-A"
Δ = 77°37'49.90" LT
R = 3800.00'
T = 3056.95'
L = 5148.65'
E = 1076.98'
e = 5.2%
Design Speed = 70 MPH

P.I. = 1573+35.05 "NWR-3"
Δ = 100°21'43.11" LT
R = 1050.00'
T = 1259.40'
L = 1839.23'
E = 589.69'
e = -6.60%
Design Speed = 45 MPH

P.O.C. Sta. 1529+45.67 "PR-A" =
P.O.C. Sta. 1529+32.82 "A"
P.I. Sta. 539+26.39
Ramp "SEL-3"

P.C.C. Sta. 540+01.37
Ramp "SEL-3" Bridge Str. No. 6
Bridge File: I-69-53-09717
Des. No. 1172112

P.O.T. Sta. 525+22.06 "SEL-3"
P.O.C. Sta. 1526+06.02 "A"

P.O.T. Sta. 525+14.05 "SEL-3" =
P.O.C. Sta. 1526+15.32 "PR-A"

End Geomembrane
Ditch Lining
Sta. 524+44.00 "SEL-3"

Begin Paving Exception
Sta. 524+18.31 "SEL-3"

+09.43, "SEL-3"
Guardrail

+93.91
"SEL-3"

End Geomembrane Ditch Lining
Sta. 523+50 "SEL-3"
Str. No. 984

P.I. Sta. 1523+26.60 "SER-3"

End Geomembrane
Ditch Lining
Sta. 1516+15 "NWR-3"

Begin Paving Exception
Sta. 1516+15 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

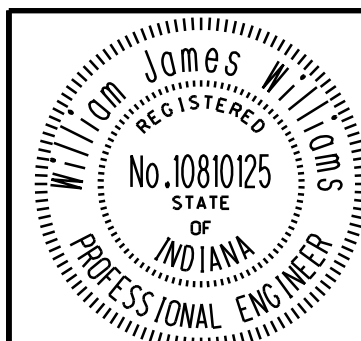
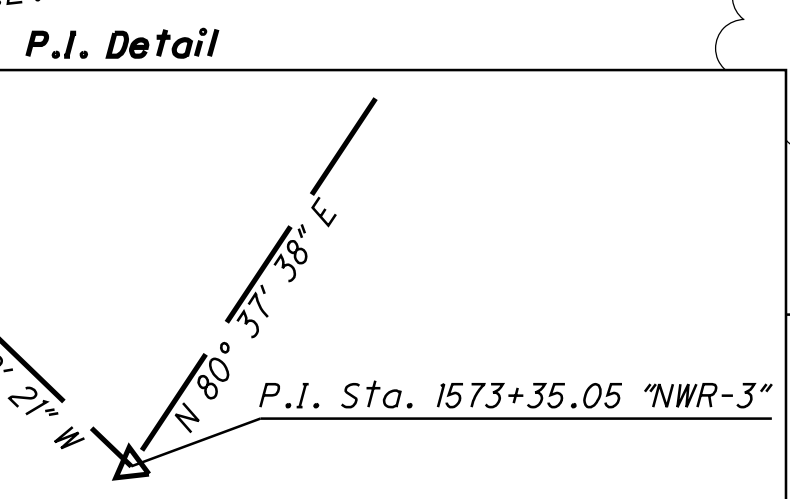
End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

End Geomembrane
Ditch Lining
Sta. 1516+60 "NWR-3"

Note:
All R/W On This Sheet To Be As Shown
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted
Limited Access R/W Requirements To Apply Where Indicated
See Sheet 149 For Karst Features Legend And Table

Legend
[X] Building Removal,
By Others
[Z] See Typical Sections For
Construction Materials

For Drainage Structure Information See Detail Sheets 117-120
For Bridge Information See:
Des. No. 1172112
Des. No. 1172113



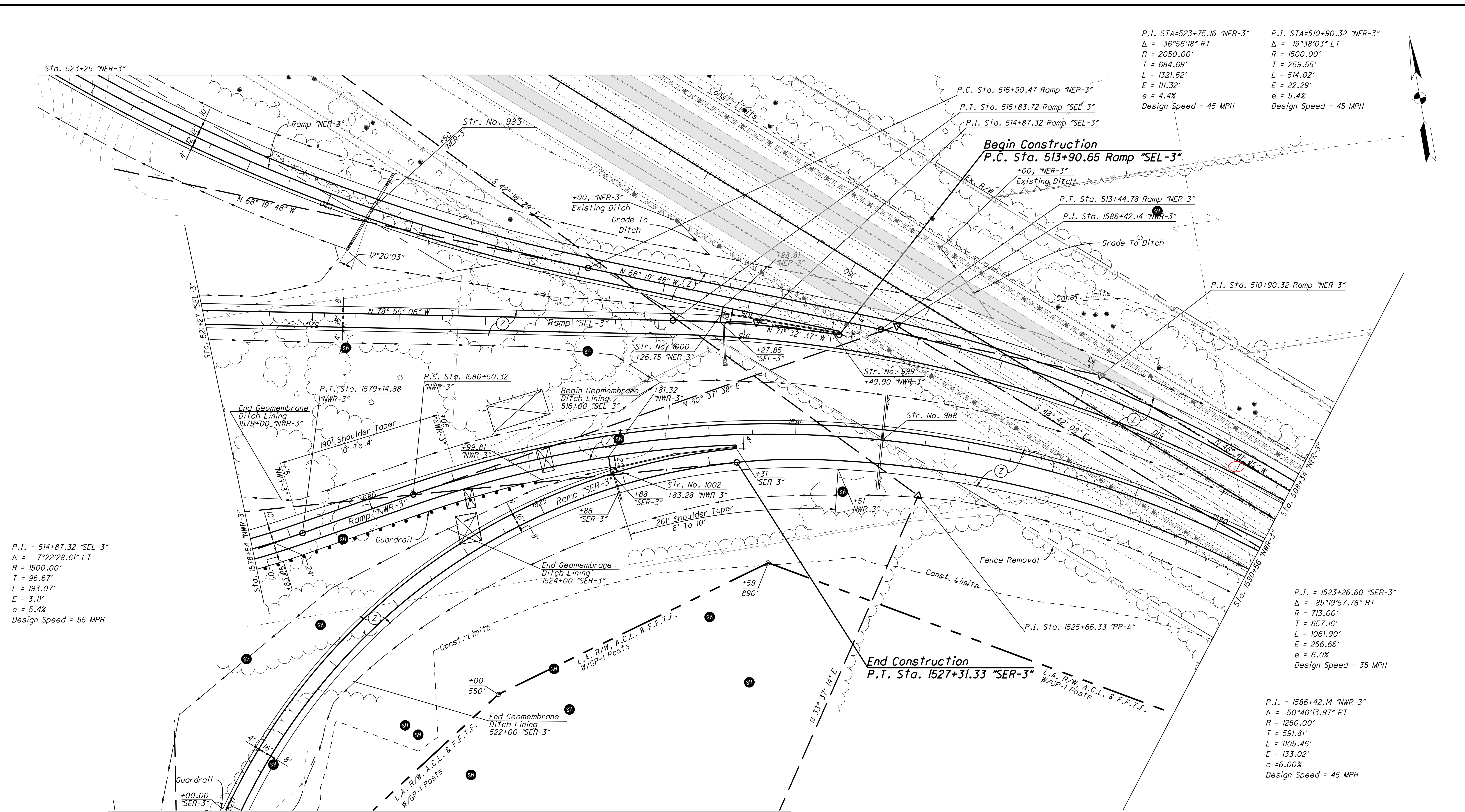
RECOMMENDED
FOR APPROVAL
DESIGNED: JB
CHECKED: RT
DRAWN: ETD
CHECKED: WJW
DATE: 9/4/2012

INDIANA
DEPARTMENT OF TRANSPORTATION
PLAN SHEET
RAMPS "NWR-3" "SEL-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 1006075
VERTICAL SCALE N/A	PAGE 66 of 173
SURVEY BOOK ELECTRONIC / AERIAL	SHEETS PP-09
CONTRACT IR-33742	PROJECT 1006075

9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels
9/25/12 - Revised Guardrail

DATE: 10/3/2012
FILE: N:\Projects\25627500\Drawings\4 Transp\Road\Road\SR17_Plan and Profiles\Sheets\25627500\PP03-SR6.dgn
LOCATION: N:\Projects\25627500\Drawings\4 Transp\Road\Road\SR17_Plan and Profiles\Sheets\25627500\PP03-SR6.dgn



P.I. STA=523+75.16 "NER-3"
Δ = 36°56'18" RT
R = 2050.00'
T = 684.69'
L = 1321.62'
E = 111.32'
e = 4.4%
Design Speed = 45 MPH

P.I. STA=510+90.32 "NER-3"
Δ = 19°38'03" LT
R = 1500.00'
T = 259.55'
L = 514.02'
E = 22.29'
e = 5.4%
Design Speed = 45 MPH

P.I. = 514+87.32 "SEL-3"
Δ = 7°22'28.61" LT
R = 1500.00'
T = 96.67'
L = 193.07'
E = 3.11'
e = 5.4%
Design Speed = 55 MPH

P.I. = 1523+26.60 "SER-3"
Δ = 85°19'57.78" RT
R = 713.00'
T = 657.16'
L = 1061.90'
E = 256.66'
e = 6.0%
Design Speed = 35 MPH

P.I. = 1586+42.14 "NWR-3"
Δ = 50°40'13.97" RT
R = 1250.00'
T = 591.81'
L = 1105.46'
E = 133.02'
e = 6.00%
Design Speed = 45 MPH

Note:
All R/W On This Sheet To Be As Shown
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted
Limited Access R/W Requirements To Apply Where Indicated
See Sheet 149 For Karst Features Legend And Table

- Legend
- Building Removal, By Others
 - See Typical Sections For Construction Materials
 - Concrete Pavement Removal

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
RAMPS "NER-3" "NWR-3" "SEL-3" "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-10
CONTRACT IR-33742	SHEETS 67 of 173
	PROJECT 1006075

P.I. STA=510+90.32 "NER-3"
Δ = 19°38'03" LT
R = 1500.00'
T = 259.55'
L = 514.02'
E = 22.29'
e = 5.4%
Design Speed = 45 MPH

P.I. = 151+62.71 "SR37"
Δ = 41° 56' 00.00" (LT)
R = 4,297.18'
T = 1,646.67'
L = 3,145.00'
E = 304.70'

Begin Construction
P.O.T. Sta. 501+00.00 "NER-3" =
O.P.O.C. Sta. 167+00.35 Line "SR37"
37.11 Rt.

Begin Incidental Construction
P.O.T. Sta. 500+00.00 Ramp "NER-3" =
O.P.O.C. Sta. 166+00.91 Line "SR37"
37.05 Rt.

End Incidental Construction
P.O.T. Sta. 1599+69.39 Ramp "NWR-3" =
O.P.O.C. Sta. 165+99.89 Line "SR 37"
36.36 Lt.

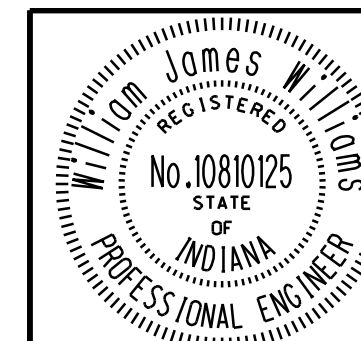
End Construction
P.O.T. Sta. 1597+85.14 "NWR-3" =
O.P.O.C. Sta. 167+00.37 Line "SR 37"
36.82 Lt.

P.I. = 1586+42.14 "NWR-3"
Δ = 50°40'13.97" RT
R = 1250.00'
T = 591.81'
L = 1105.46'
E = 133.02'
e = 6.00%
Design Speed = 45 MPH

Note:
All R/W On This Sheet To Be As Shown
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted
Limited Access R/W Requirements To Apply Where Indicated
See Sheet 149 For Karst Features Legend And Table

Legend
[X] Building Removal,
By Others
[Z] See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL
DESIGNED: JB
CHECKED: RT
DRAWN: ETD
CHECKED: WJW
DATE: 9/4/2012

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
RAMPS "NER-3" "NWR-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-II
CONTRACT IR-33742	SHEETS 68 of 173
	PROJECT 1006075

9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels

P.I. = 1525+66.33 "PR-A"
Δ = 77°37'49.90" LT
R = 3800.00'
T = 3056.95'
L = 5148.65'
E = 1076.98'
e = 5.2%
Design Speed = 70 MPH

P.I. = 1522+94.22 "A"
Δ = 71°30'58.11" LT
R = 4000.00'
T = 2880.44'
L = 4992.77'
E = 929.19'
e = 5.2%
Design Speed = 70 MPH

Bridge Str. No. 6
Bridge File: I-69-53-0717
Des. No. 1172112

Begin Paving Exception
Sta. 524+18.31 "SEL-3"

Sta. 1525+48 "PR-A"

Str. No. 984

P.O.C. Sta. 1529+45.67 "PR-A" =
P.O.C. Sta. 1529+32.82 "A"

P.I. Sta. 523+75.16 Ramp "NER-3"

N 68° 19' 48" W

N 37° 23' 30" W

19°41'54"

Ramp "NER-3"

Str. No. 982 +43.8

P.T. Sta. 530+12.09 Ramp "NER-3"

+34
"PR-A"

+92
"NER-3"

+99
"PR-A"

+08
"NER-3"

Maintain Existing Ditch

Maintain Existing Ditch

Ex. R/W

P.I. STA=523+75.16 "NER-3"
Δ = 36°56'18" RT
R = 2050.00'
T = 684.69'
L = 1321.62'
E = 111.32'
e = 4.4%
Design Speed = 45 MPH

Existing "SR37" SB

Existing "SR37" NB

Grade To Drain @ 20:1

Grade To Drain @ 20:1

Existing "SR37"

Section A-A

End Construction

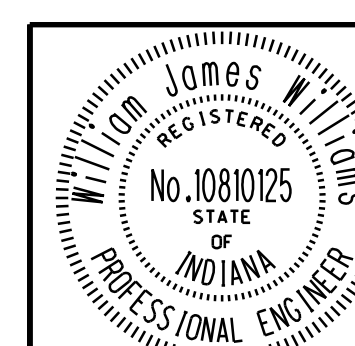
P.O.T. Sta. 533+08.07 Ramp "NER-3" =
O.P.O.C. Sta. 1536+38.12 Line "A"
34.85 Rt.
O.P.O.C. Sta. 1536+47.73 Line "PR-A"
55.26 Rt.

Note:
All R/W On This Sheet To Be As Shown
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted
Limited Access R/W Requirements To Apply Where Indicated
See Sheet 149 For Karst Features Legend And Table

Legend

- Building Removal, By Others
- See Typical Sections For Construction Materials
- Concrete Pavement Removal

For Drainage Structure Information See Detail Sheets 117-120



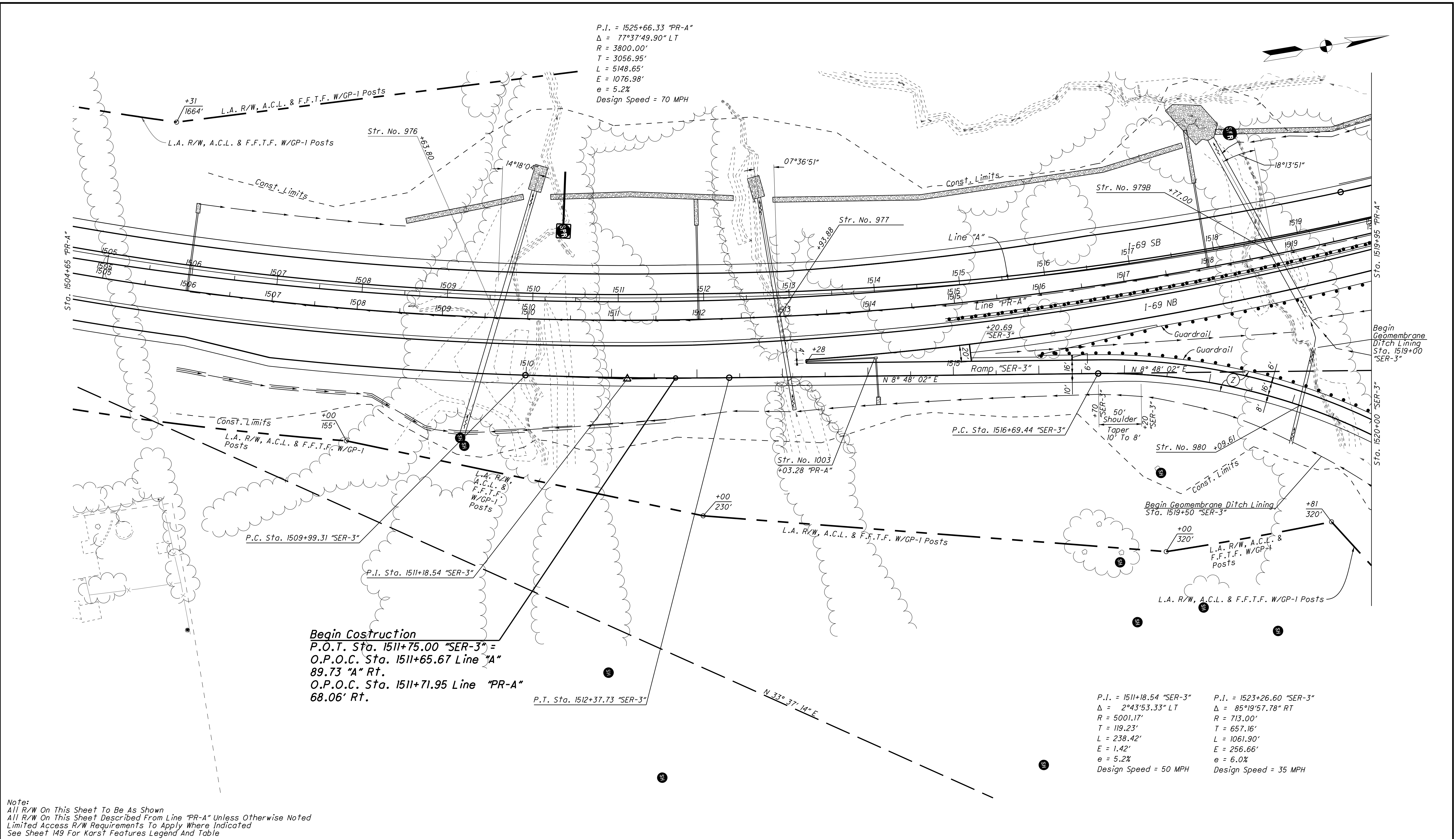
RECOMMENDED FOR APPROVAL
DESIGNED: JB
CHECKED: RT
DRAWN: ETD
CHECKED: WJW
DATE: 9/4/2012

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
RAMP "NER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-12
CONTRACT IR-33742	SHEETS 69 of 173
	PROJECT 1006075

9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels
9/25/12 - Added Detail



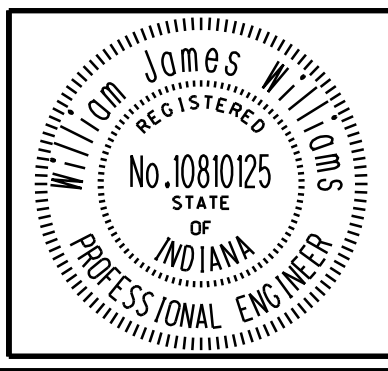
Note:
All R/W On This Sheet To Be As Shown
All R/W On This Sheet Described From Line "PR-A" Unless Otherwise Noted
Limited Access R/W Requirements To Apply Where Indicated
See Sheet 149 For Karst Features Legend And Table

Legend

☒ Building Removal,
By Others

☒ See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i> DESIGN ENGINEER	9/4/2012 DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

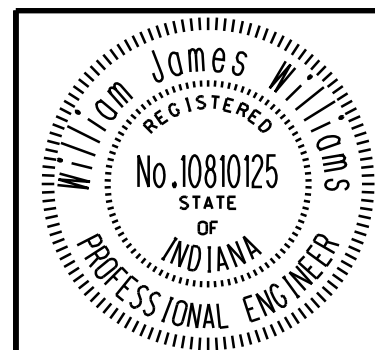
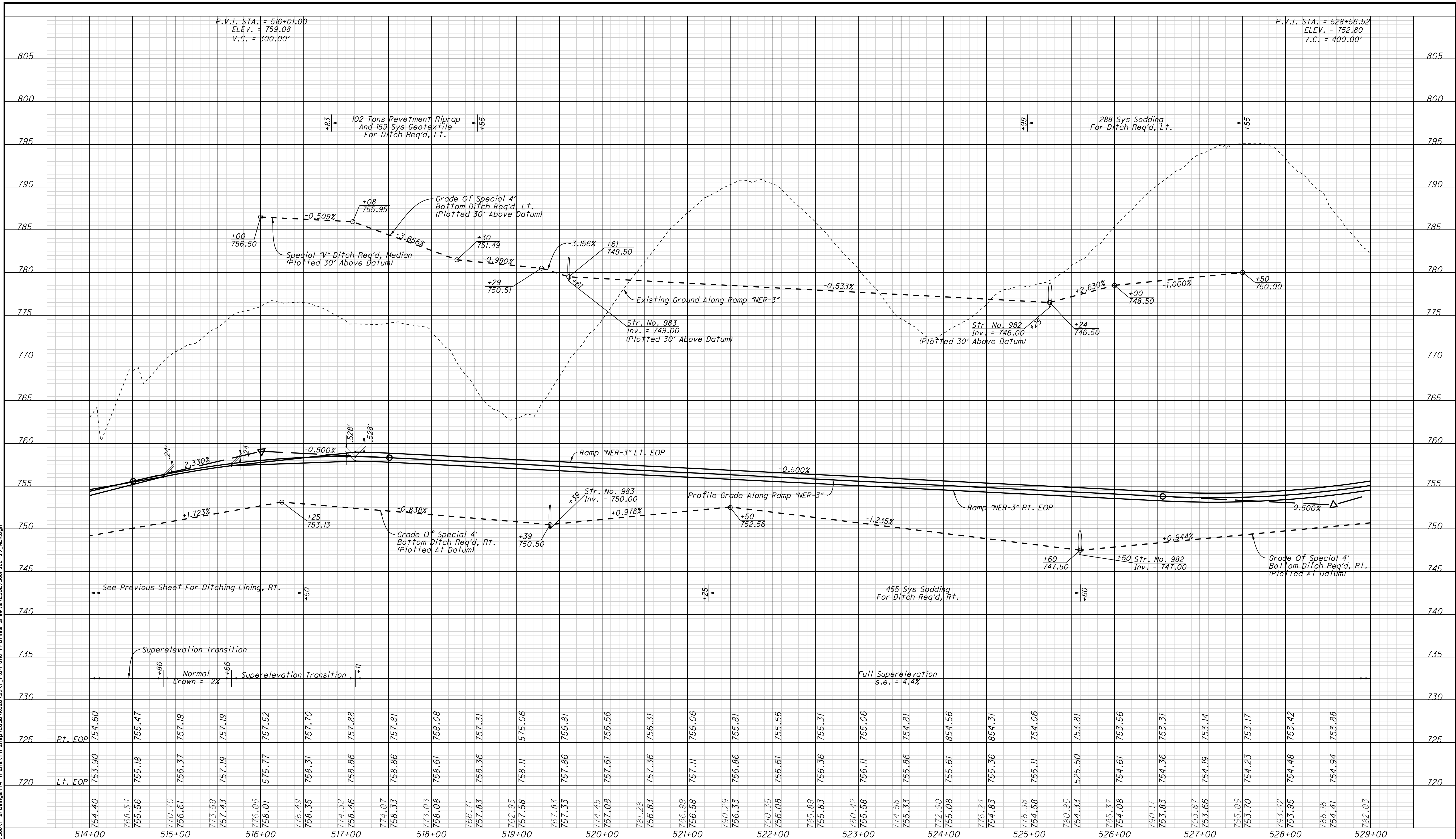
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
RAMP "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL PP-13	PAGE 70 of 173
CONTRACT IR-33742	PROJECT 1006075

DATE: 10/3/2012
FILE: N:\Projects\25627500\Drawings\149\Transp\Road\Road\Sheet\149.dgn
LOCATION: N:\Projects\25627500\Drawings\149\Transp\Road\Road\Sheet\149.dgn

DATE: 10/3/2012
FILE: 1035007.MXD
LOCATION: N:\Projects\25627500\Drawings\4 Trans\Road\Road\5912_Plan and Profiles\Sheets\25627500P-S02-S9_NER.dgn



RECOMMENDED FOR APPROVAL

DESIGNED: JB DRAWN: ETD

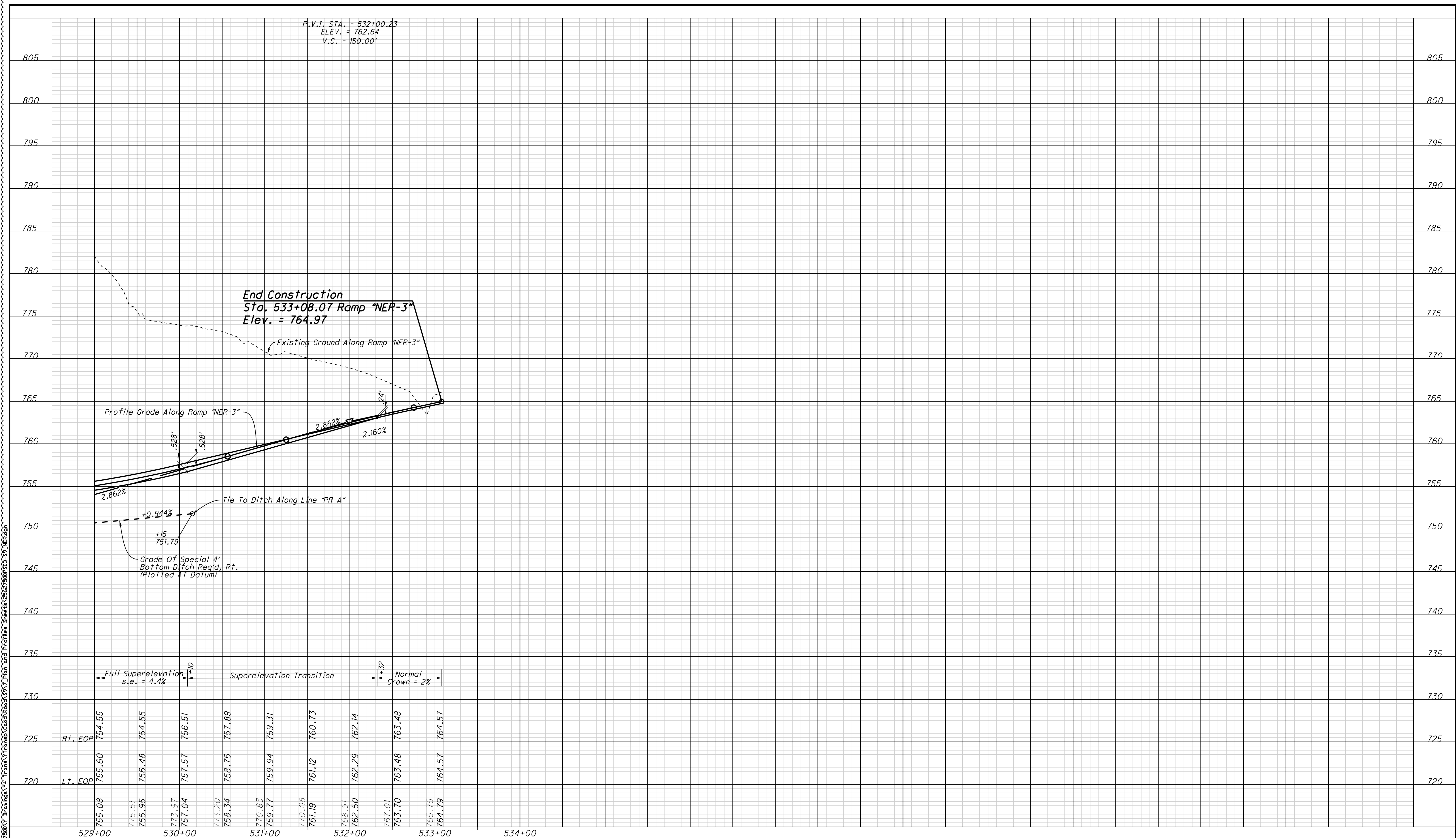
CHECKED: RT CHECKED: WJW

9/4/2012


INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
STA. 514+00 TO 529+00 "NER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-09
CONTRACT IR-33742	SHEETS 72 of 173
	PROJECT 1006075



A circular professional engineer seal for James Williams. The outer ring contains the text "James Williams" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the word "REGISTERED" is at the top, "STATE OF INDIANA" is in the center, and the number "No. 10810125" is at the bottom.

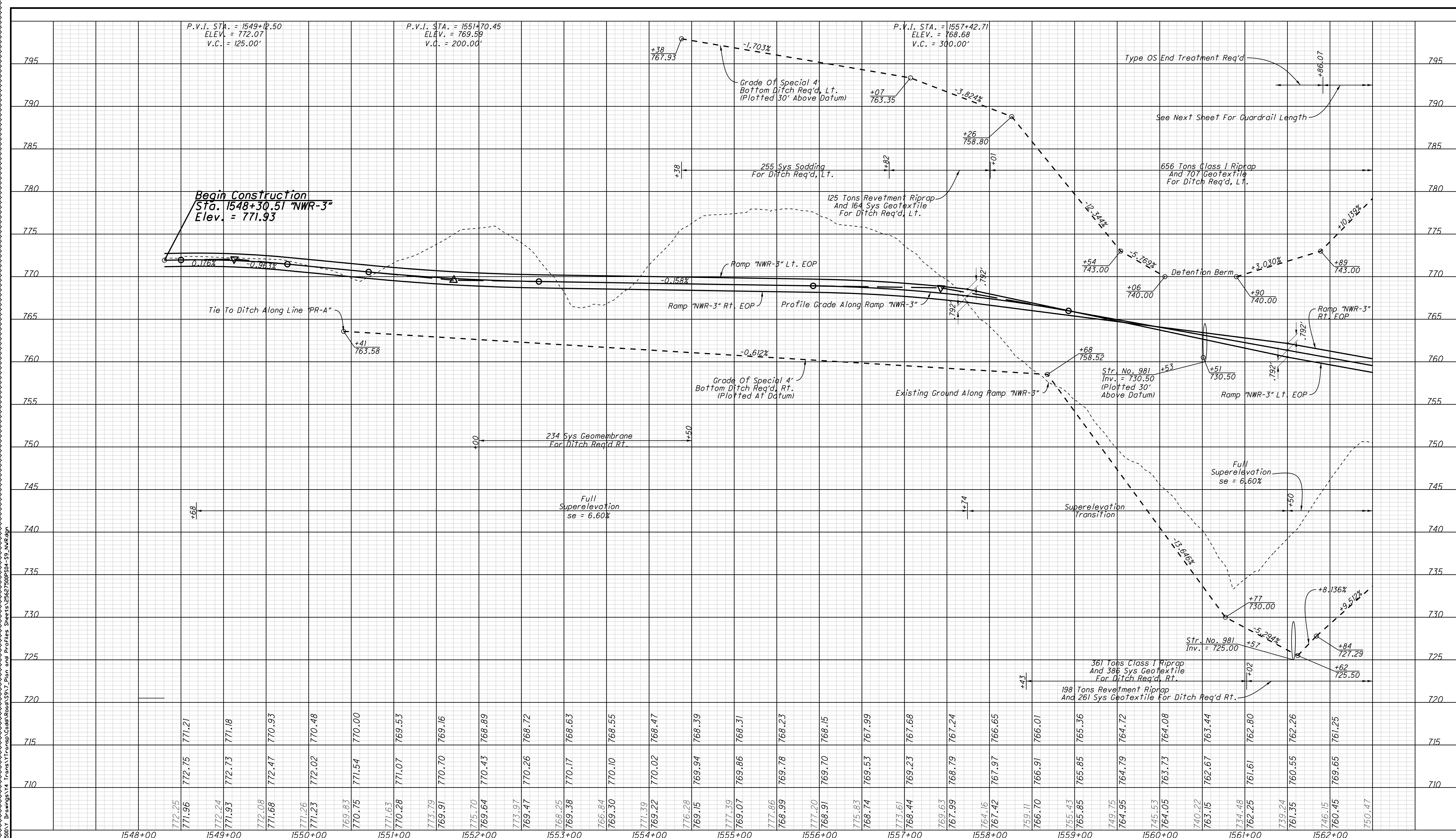
RECOMMENDED FOR APPROVAL	 _____ DESIGN ENGINEER		9/4/2012 _____ DATE
DESIGNED: _____ JB	DRAWN: _____ ETD		
CHECKED: _____ RT	CHECKED: _____ WJW		

INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET STA. 529+00 TO 534+00 "NER-3"	

HORIZONTAL SCALE		BRIDGE FILE	
1" = 50'			
VERTICAL SCALE		DESIGNATION	
1" = 5'		1006075	
SURVEY BOOK		PAGE	SHEETS
ELECTRONIC / AERIAL		PS-10	73 of 173
CONTRACT		PROJECT	
IR-33742		1006075	

1

DATE: 10/13/2012
TIME: 10:58:52 AM
LOCATION: N:\Projects\25627500\Drawings\4 Transp\Road\Road\5917 Plan and Profile Sheets\25627500PS04-S9 NWR.dgn



1548+00		1549+00		1550+00		1551+00		1552+00		1553+00		1554+00		1555+00		1556+00		1557+00		1558+00		1559+00		1560+00		1561+00		1562+50	
710																													
715																													
720																													
725																													
730																													
735																													
740																													
745																													
750																													
755																													
760																													
765																													
770																													
775																													
780																													
785																													
790																													
795																													

DESIGNED: JB		DRAWN: ETD	
CHECKED: RT		CHECKED: WJW	

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
No. 1081025		STATE OF INDIANA		PROFESSIONAL ENGINEER	

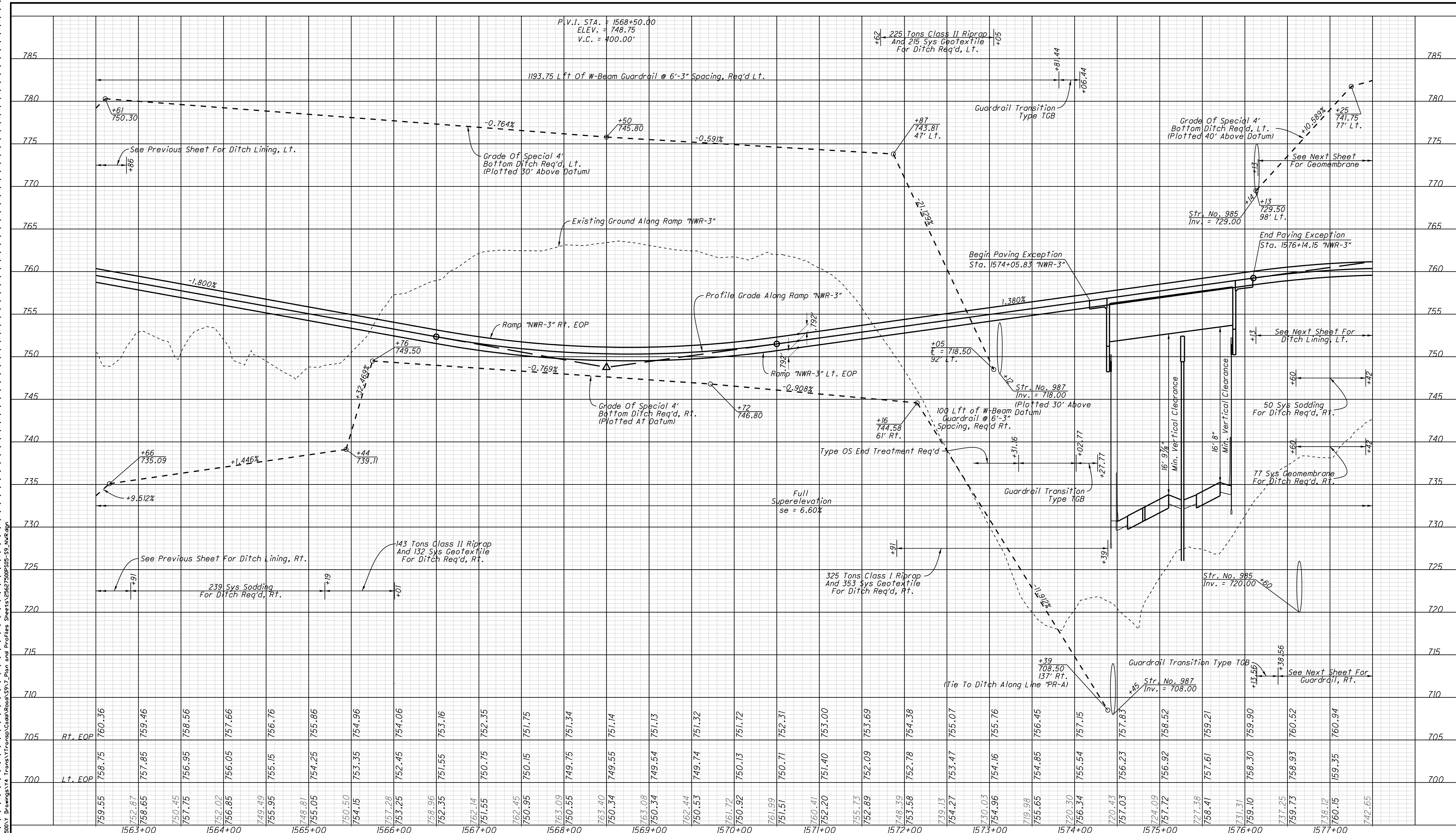
INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET	
STA. 1548+00 TO 1562+50 "NWR-3"	

HORIZONTAL SCALE 1" = 50'		BRIDGE FILE	
VERTICAL SCALE 1" = 5'		DESIGNATION 1006075	
SURVEY BOOK ELECTRONIC / AERIAL		PAGE PS-II	
CONTRACT IR-33742		SHEETS 74 of 173	
		PROJECT 1006075	

9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels

1

DATE: 10/3/2012
FILE: N030504-MR
LOCATION: N-Projects\25627500-Y Drawings\4 Transp\Road\5917_Plan and Profiles\Sheets\25627500P-S05-S9_NWR.dgn



1563+00		1564+00	1565+00	1566+00	1567+00	1568+00	1569+00	1570+00	1571+00	1572+00	1573+00	1574+00	1575+00	1576+00	1577+00
Rt. EOP		760.36	759.46	758.56	757.66	756.76	755.86	754.96	754.06	753.16	752.35	751.75	751.34	751.14	751.13
Lt. EOP		759.55	758.75	757.85	756.95	756.05	755.15	754.25	753.35	752.45	751.55	750.65	750.15	750.00	750.00
		759.55	758.87	758.65	758.45	758.25	758.05	757.85	757.65	757.45	757.25	757.05	756.85	756.65	756.45

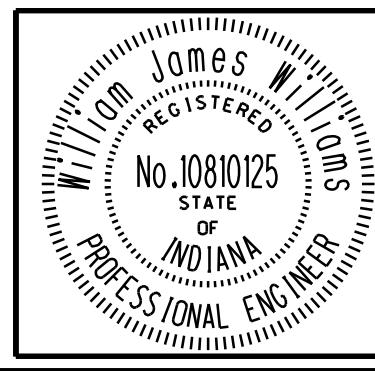
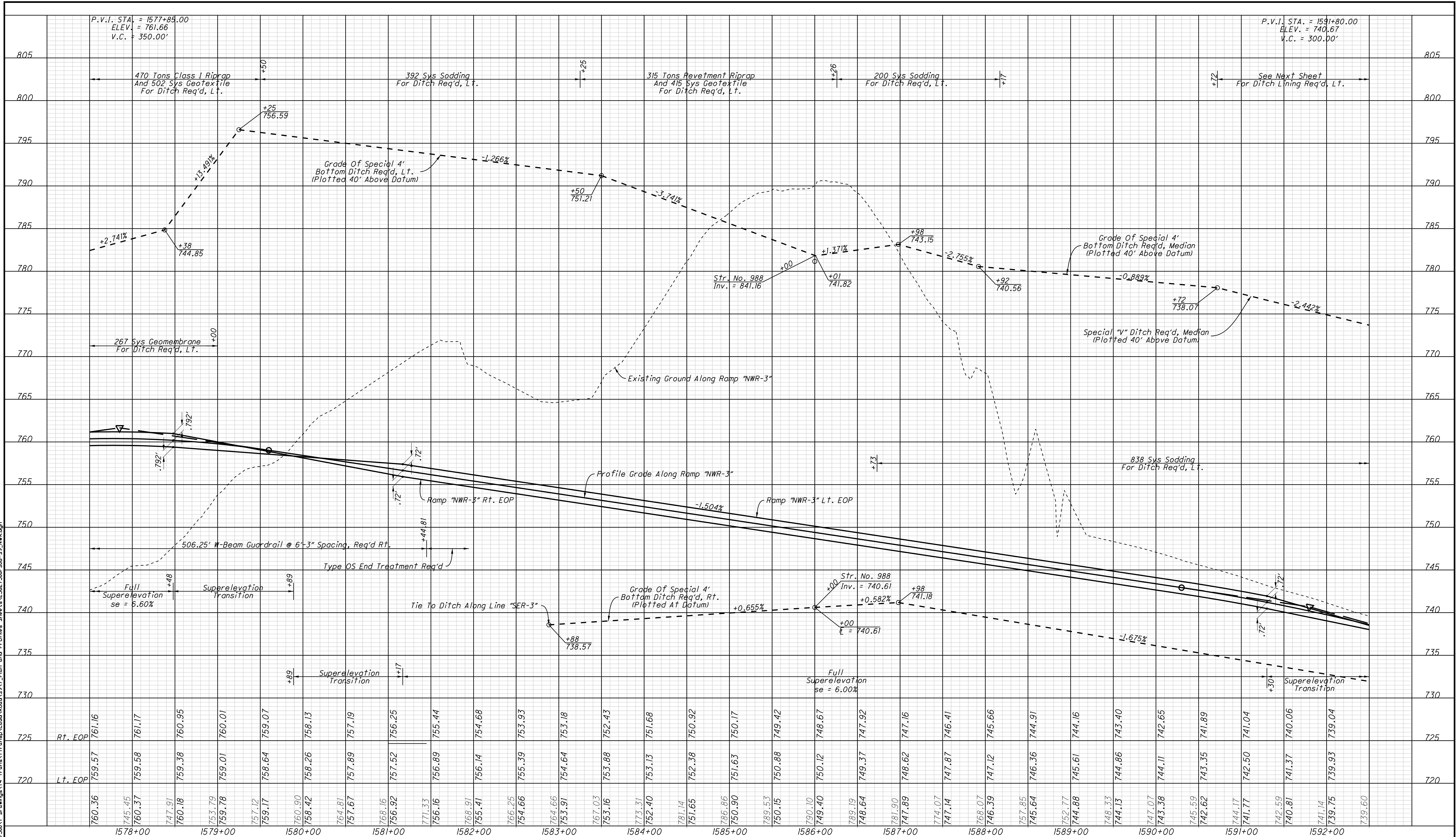
RECOMMENDED FOR APPROVAL	DESIGNED: JB	DRAWN: ETD	CHECKED: RT	CHECKED: WJW
--------------------------	--------------	------------	-------------	--------------

INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET	
STA. 1562+50 TO 1577+50 "NWR-3"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-12
CONTRACT IR-33742	SHEETS 75 of 173
	PROJECT 1006075

9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels

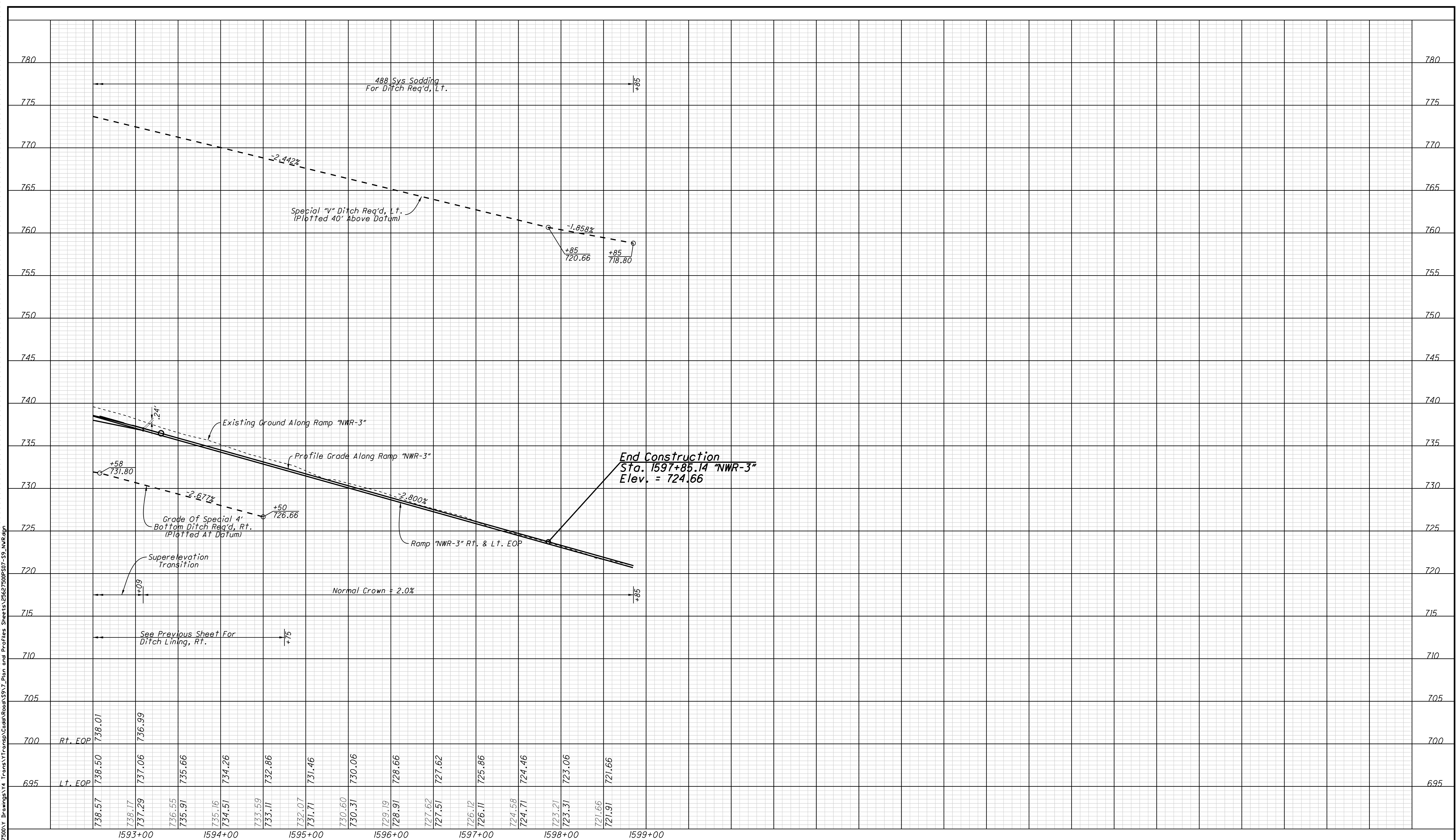
DATE: 10/3/2012
TIME: 10:55:00 AM
LOCATION: N:\Projects\25627500\Drawings\4 Trans\Road\Road\5917 Plan and Profile Sheets\25627500\S06-S9 NWR.dgn



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JB		DRAWN: ETD		9/4/2012	
CHECKED: RT		CHECKED: WJW			

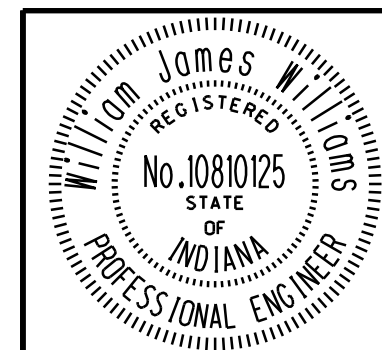
INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET	
STA. 1577+50 TO 1592+50 "NWR-3"	

HORIZONTAL SCALE 1" = 50'		BRIDGE FILE	
VERTICAL SCALE 1" = 5'		DESIGNATION 1006075	
SURVEY BOOK ELECTRONIC / AERIAL		PAGE PS-13	
CONTRACT IR-33742		SHEETS 76 of 173	
		PROJECT 1006075	

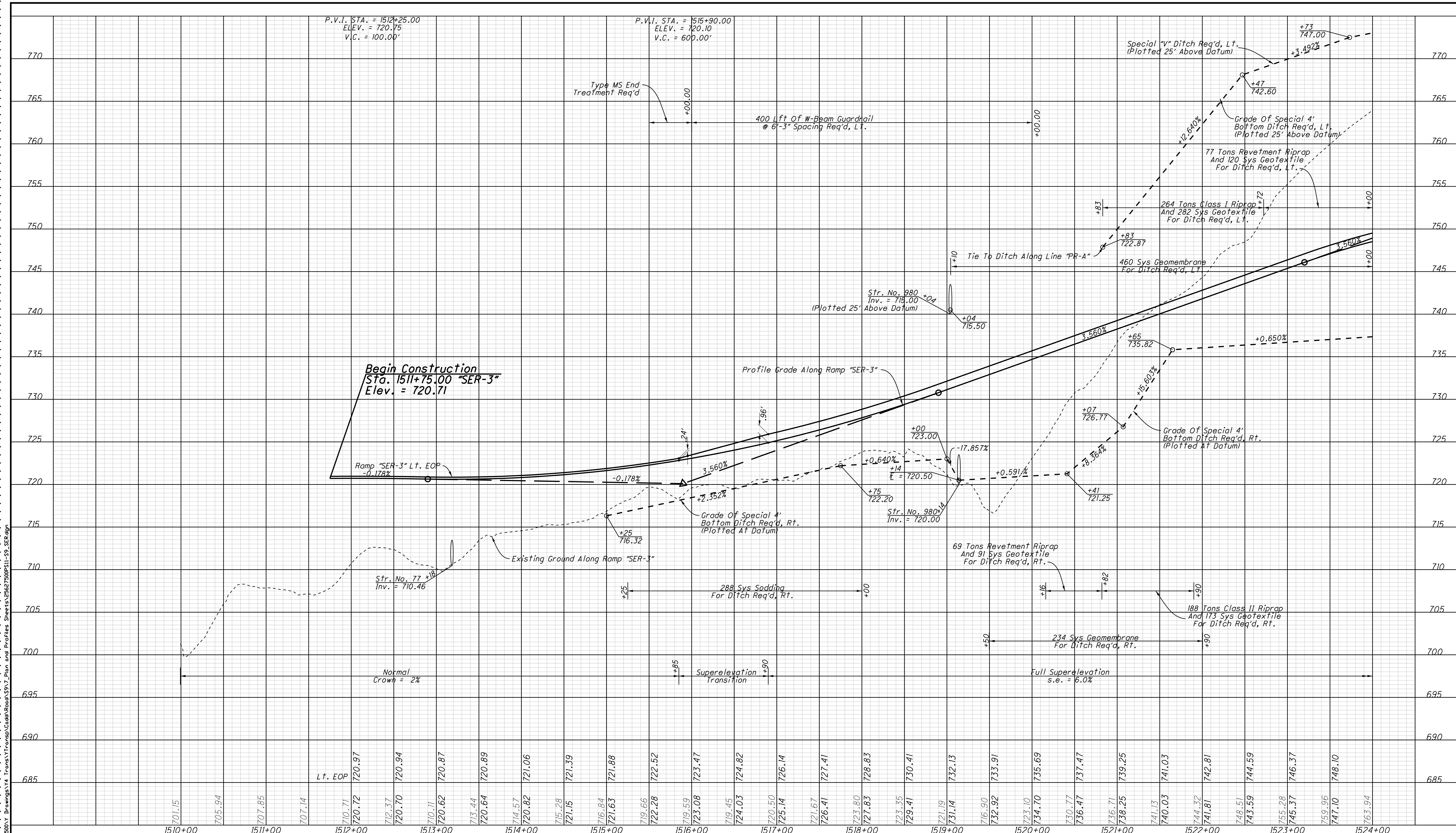


DATE: 10/3/2012

9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels



DATE: 10/3/2012
FILE: 103357.dwg
LOCATION: N:\Projects\25627500\Drawings\4 Transp\CaddRoad\S917 Plan and Profiles Sheets\25627500PS1-59_SER.dgn



1510+00										1524+00									
Lt. EOP																			
720.97										746.37									
720.94										746.10									
720.87										745.96									
720.89										745.71									
721.06										744.59									
721.39										744.32									
721.88										744.03									
722.52										743.81									
723.47										743.59									
724.82										743.37									
726.14										743.15									
727.41										742.93									
728.83										742.71									
729.41										742.49									
730.41										742.27									
731.13										742.05									
732.13										741.83									
733.91										741.61									
735.69										741.39									
737.47										741.17									
739.25										740.95									
741.03										740.73									
742.81										740.51									
744.59										740.29									
746.37										740.07									
748.10										739.85									
750.96										739.63									
753.82										739.41									
756.68										739.19									
759.54										738.97									
762.40										738.75									
765.26										738.53									
768.12										738.31									
770.98										738.09									

RECOMMENDED FOR APPROVAL
DESIGNED: JB
CHECKED: RT

DESIGN ENGINEER
DATE: 9/4/2012

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILE SHEET
STA. 1510+00 TO 1524+00 "SER-3"

HORIZONTAL SCALE
1" = 50'

VERTICAL SCALE
1" = 5'

BRIDGE FILE
DESIGNATION
1006075

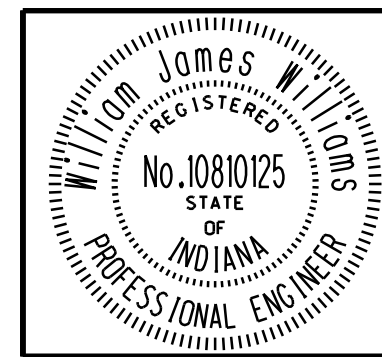
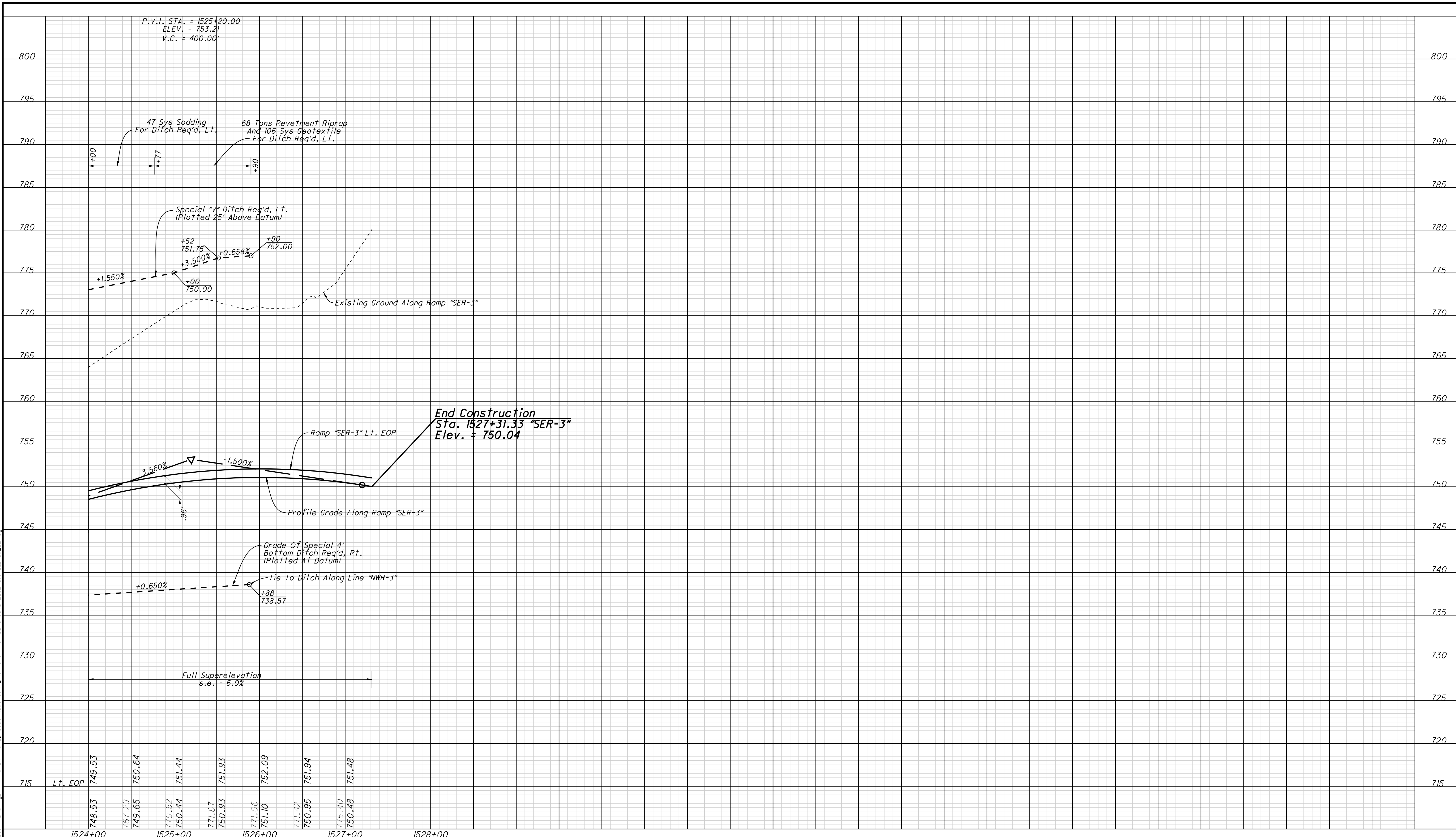
SURVEY BOOK
ELECTRONIC / AERIAL
CONTRACT
IR-33742

PAGE
PS-18
81 of 173

SHEETS
PROJECT
1006075

1

DATE: 10/3/2012
FILE: 103512.dwg
LOCATION: N:\Projects\25627500\Drawings\4 Trans\YTrans\CaddRoad\S917 Plan and Profiles Sheets\25627500\PS-19 SER.dgn

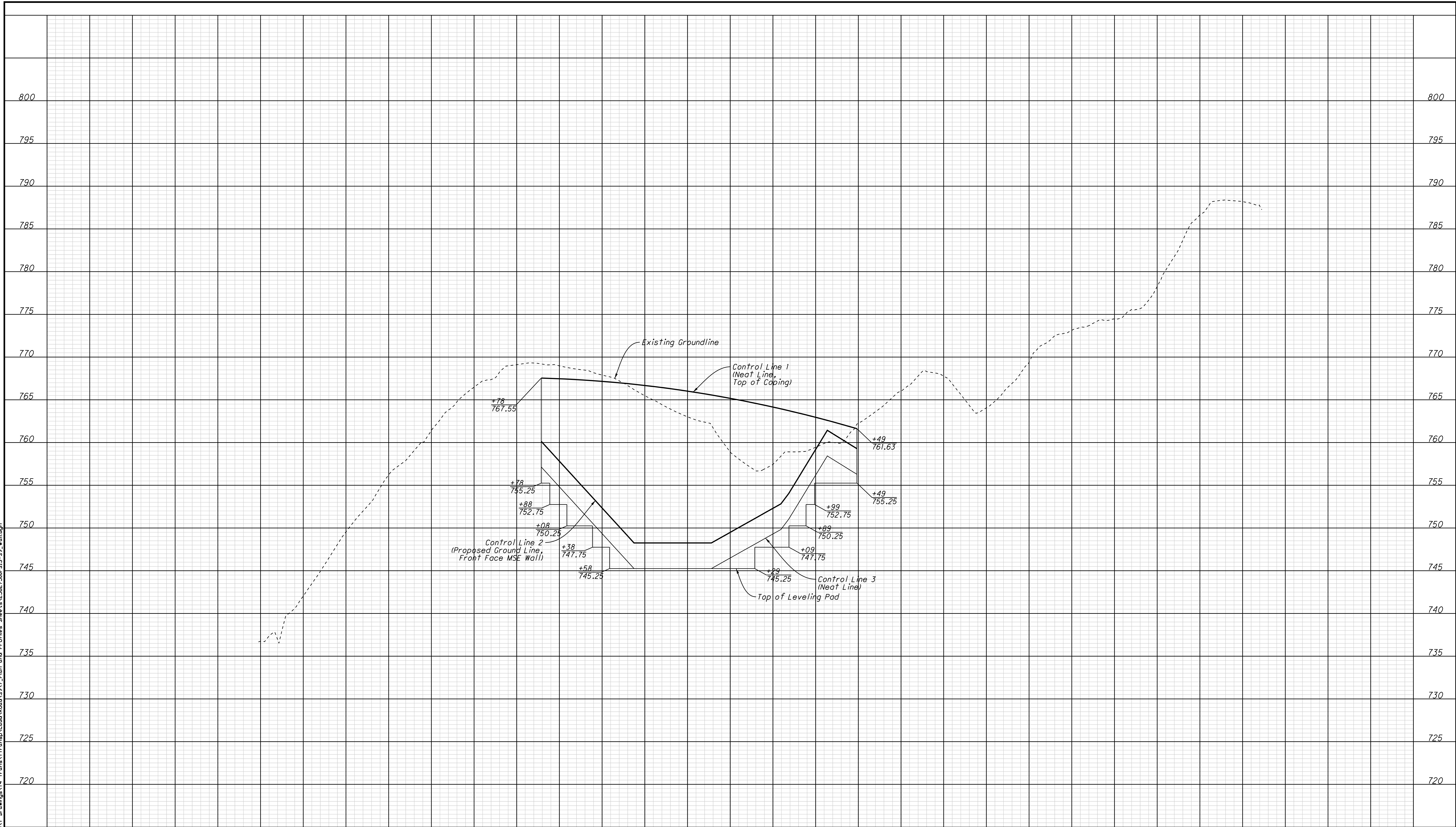


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
PROFILE SHEET STA. 1524+00 TO 1528+00 "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-19
CONTRACT IR-33742	SHEETS 82 of 173
	PROJECT 1006075

DATE: 10/3/2012
FILE: N:\030187.ME
LOCATION: N:\Projects\25627500\Y Trans\YTrans\Cadd\Road\S917_Plan and Profiles\Sheets\25627500\PS19-S9_Vall.dgn



528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DATE 9/4/2012	
DESIGNED: JB	DRAWN: ETD
CHECKED: RT	CHECKED: WJW

INDIANA DEPARTMENT OF TRANSPORTATION	
PROFILE SHEET	
RAMP "SEL-3" WALL DETAIL	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PS-20
CONTRACT IR-33742	SHEETS 83 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:42:14 AM
LOCATION: 1006075

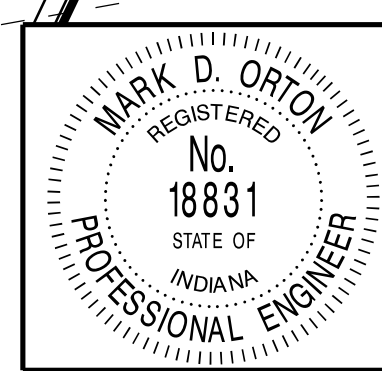
DESIGNED BY: MDO
CHECKED BY: HCF
DRAWN BY: KCH
DATE: 9/6/10

LEGEND
[B] - Begin L.A. R/W
[E] - End L.A. R/W
[SH] Sinkhole
[SPR] Spring
② See Typical Sections for Construction Materials

CURVE DATA
PI = 8+41.56 "Glenview Drive"
Δ = 38° 49' 46" (RT)
R = 250.00'
T = 88.11'
L = 169.43'
E = 15.07'
CURVE DATA
PI = 10+94.31 "Glenview Drive"
Δ = 23° 21' 45" (LT)
R = 250.00'
T = 51.69'
L = 101.94'
E = 5.29'

Note:
All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "A" except as noted.
Line "Bolin Lane" to be constructed.

For Sinkhole Treatment Details See Sheet 100.
For Spring Box Details See Sheet 103.

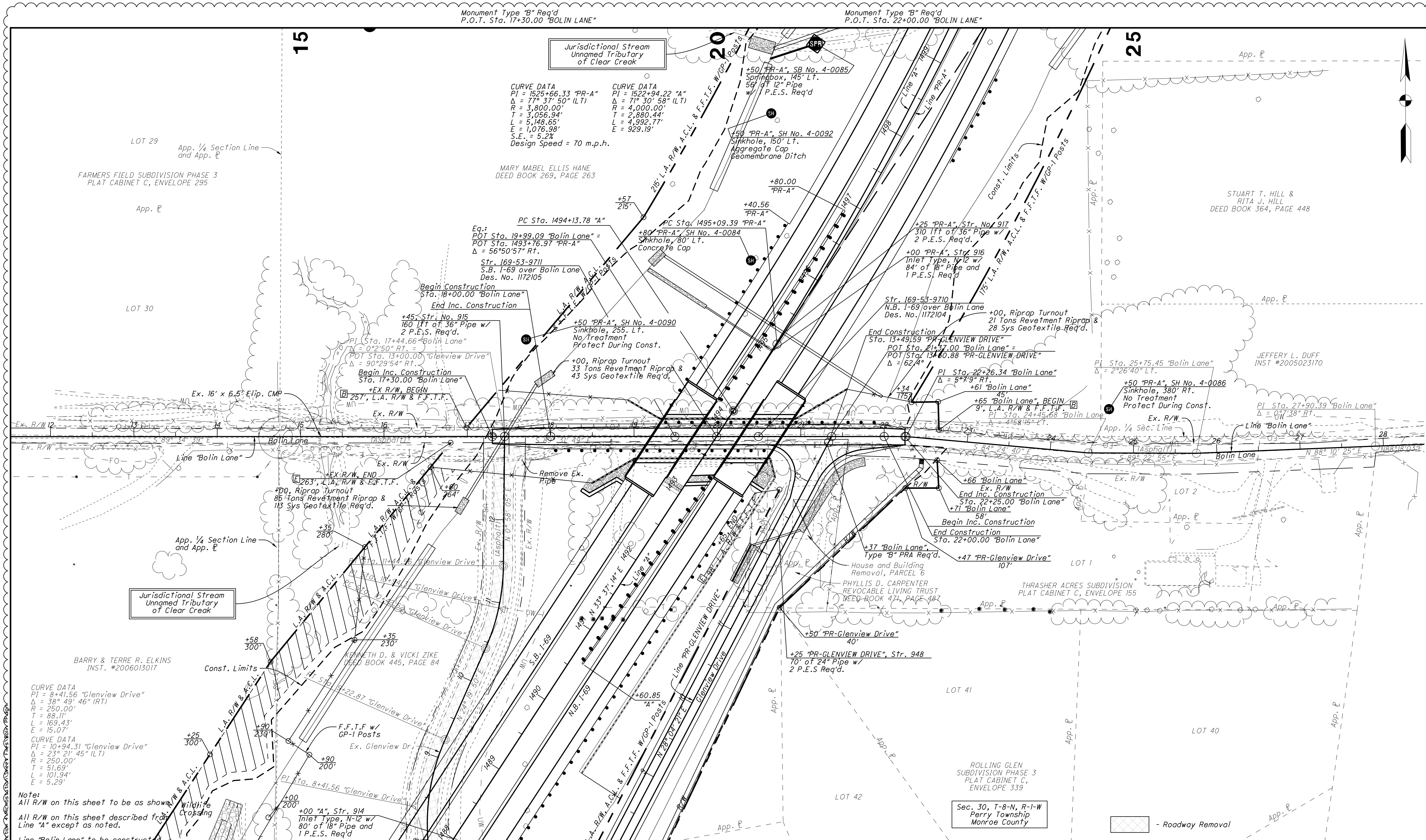


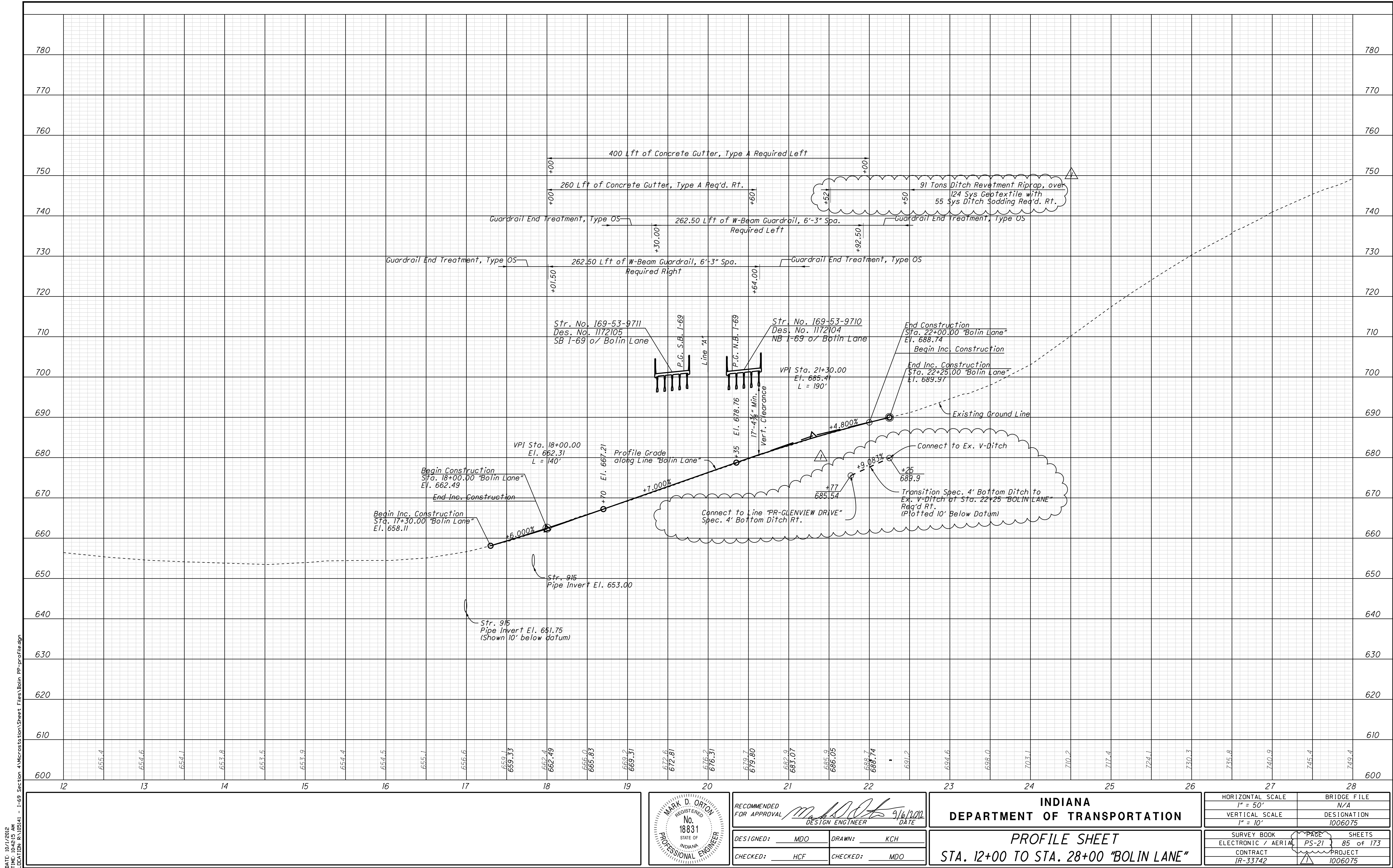
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

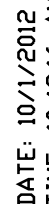
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
STA. 12+00 TO STA. 28+00 "BOLIN LANE"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PP-14
CONTRACT IR-33742	SHEETS 84 of 173
	PROJECT 1006075







MARY MABEL ELLIS HANE
DEED BOOK 269, PAGE 263

CURVE DATA
PI = 1525+66.33 "PR-A"
 $\Delta = 77^\circ 37' 50"$ (LT)
R = 3,800.00'
T = 3,056.94'
L = 5,148.65'
E = 1,076.98'
S.E. = 5.2%

CURVE DATA
PI = 1522+94.22 "A"
 $\Delta = 71^\circ 30' 58"$ (LT)
R = 4,000.00'
T = 2,880.44'
L = 4,992.77'
E = 929.19'

PC Sta. 1495+09.39 "PR-A"
Str. 169-53-9710
N.B. 1-69 over Bolin Lane
Des. No. 1172104

Eq. POT Sta. 1494+13.78 "A" (Bk) =
POT Sta. 1494+13.78 "PR-A" (Ah)
Eq. POT Sta. 19+99.09 "Bolin Lane"
 $\Delta = 86^\circ 50' 57"$ RT.
POT Sta. 1493+76.97 "A"

+25 "PR-A", Str. No. 917
312 ft of 36" Pipe w/
2 P.E.S. Req'd.

MARY MABEL ELLIS HANE
DEED BOOK 269, PAGE 263

End Construction
Sta. 13+49.59 "PR-GLENVIEW DRIVE"

POT Sta. 21+37.00 "Bolin Lane" =
POT Sta. 13+60.88 "PR-GLENVIEW DRIVE"
 $\Delta = 62.4^\circ$
F.F.T.F. w
GP-1 Posts
+34, BEGIN
175', L.A. R/W, F.F.T.F.

+00, Riprap Turnout
21 Tons Revetment Riprap
28 Sys Geotextile Req'd.

End Construction
Sta. 22+00.00 "Bolin Lane"

PI Sta. 22+26.34 "Bolin Lane"
 $\Delta = 5^\circ 7' 9"$ RT.

+61 "Bolin Lane"
45'

End Inc. Construction
Sta. 22+25.00 "Bolin Lane"

+65 "Bolin Lane"
Ex. R/W

App. 1/4 Sec. Line

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

+66 "Bolin Lane"
Ex. R/W

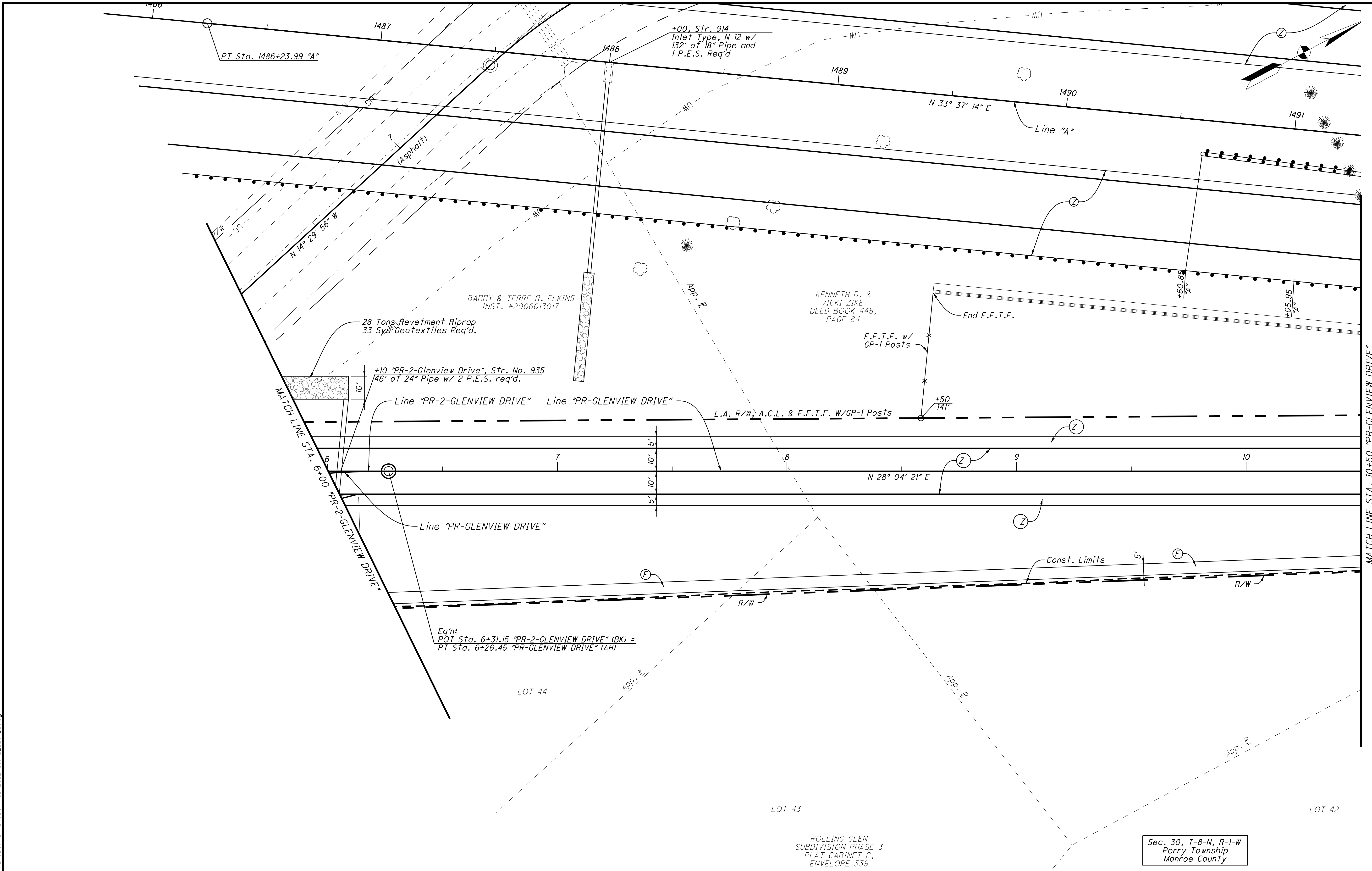
+71 "Bolin Lane"
58'

+47 "PR-Glenview Drive"
107'

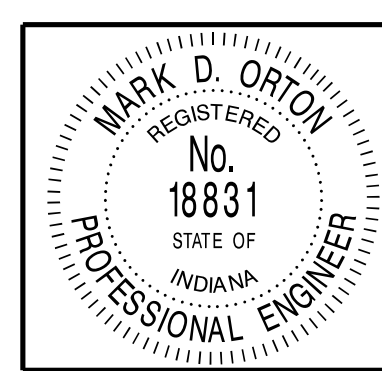
+66 "Bolin Lane"
Ex. R/W

+71 "Bolin Lane"
58'</

DATE: 10/12/2012
TIME: 10:42:20 AM
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\25627500R1.CDD4_S9.dgn



All R/W on this sheet to be as shown.
All R/W on this sheet described from Line "A" except as noted.
Line "PR-GLENVIEW DRIVE" to be constructed.
② See Typical Section for Construction Materials ③ Concrete Sidewalk (4")

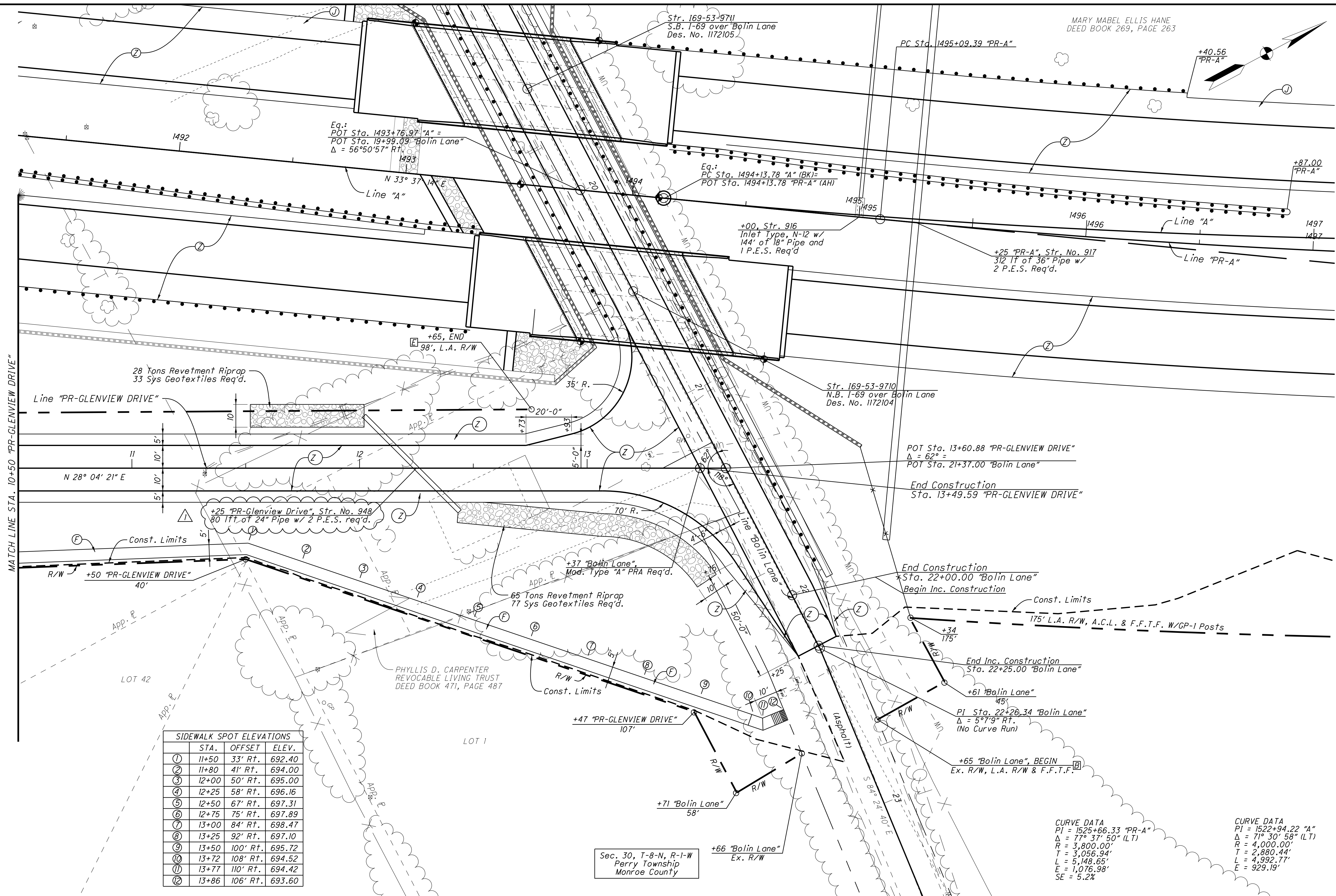


RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE: 9/6/10
DESIGNED: MDO
DRAWN: BDM
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAILS
STA. 6+00 TO STA. 11+00 "PR-GLENVIEW DRIVE"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CD-04
CONTRACT IR-33742	SHEETS 95 of 173
	PROJECT 1006075

DATE: 10/12/2012
TIME: 10:42:27 AM
LOCATION: R:\03541 - I-69 Section 4\MicroStation\Sheet Files\B5627500R1.CDD.S9.dgn



SIDEWALK SPOT ELEVATIONS		
STA.	OFFSET	ELEV.
① 11+50	33' Rt.	692.40
② 11+80	41' Rt.	694.00
③ 12+00	50' Rt.	695.00
④ 12+25	58' Rt.	696.16
⑤ 12+50	67' Rt.	697.31
⑥ 12+75	75' Rt.	697.89
⑦ 13+00	84' Rt.	698.47
⑧ 13+25	92' Rt.	697.10
⑨ 13+50	100' Rt.	695.72
⑩ 13+72	108' Rt.	694.52
⑪ 13+77	110' Rt.	694.42
⑫ 13+86	106' Rt.	693.60

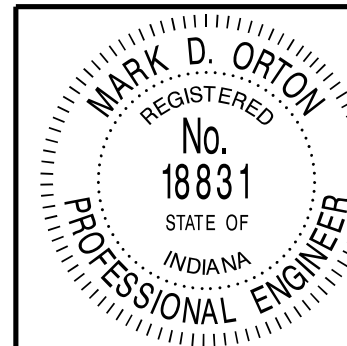
All R/W on this sheet to be as shown.

All R/W on this sheet described from Line "A" except as noted.

Line "PR-GLENVIEW DRIVE" to be constructed.

② See Typical Section for Construction Materials (F) Concrete Sidewalk (4")

Sec. 30, T-8-N, R-1-W
Perry Township
Monroe County



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION DETAILS	
STA. 10+50 TO STA. 13+53.09 "PR-GLENVIEW DRIVE"	

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CD-05
CONTRACT IR-33742	SHEETS 96 of 173
	PROJECT 1006075

DATE: 07/27/12
TIME: 10:42:22 AM
LOCATION: R:\03141 - I-69 Section 4\MicroStation\Sheet Files\B5627500R1.CDD6_S9.dgn

CURVE DATA
PI = 1553+30.60 "PR-A"
 $\Delta = 4^\circ 28' 54"$ (RT)
R = 17,188.15'
T = 672.56'
L = 1,344.43'
E = 13.15'
S.E. = N.C.

END PROJECT 1006075*
Sta. 1553+25.00 "PR-A"

Begin Incidental Construction
Sta. 1553+25.00 "PR-A"

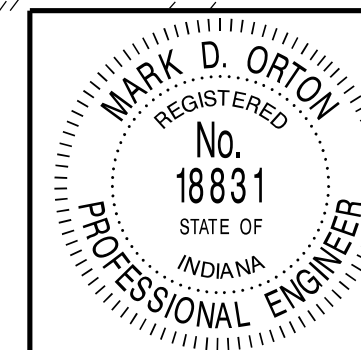
Eq.:
Sta. 1554+30.00 "PR-A" (BK) =
Sta. 216+18.47 "SR 37" (AH)

Eq.:
Sta. 217+00.00 "SR 37" =
Sta. 49+73.99 "THAT ROAD"

End Incidental Construction
Sta. 217+60 "SR 37"

CURVE DATA
PI = 208+20.77 "SR 37"
 $\Delta = 9^\circ 09' 15"$ (RT)
R = 17,188.74'
T = 1,376.05'
L = 2,746.25'
E = 54.99'

CURVE DATA
PI = 52+32.27 "THAT ROAD"
 $\Delta = 53^\circ 41' 30"$ (RT)
R = 190.99'
T = 96.67'
L = 178.98'
E = 23.07'



RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER
DATE 9/6/10

DESIGNED: MDO
DRAWN: BDM
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
I-69, S.R. 37, AND THAT ROAD

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CD-06
CONTRACT IR-33742	SHEETS 98 of 173
	PROJECT 1006075

All R/W on this sheet to be as shown.

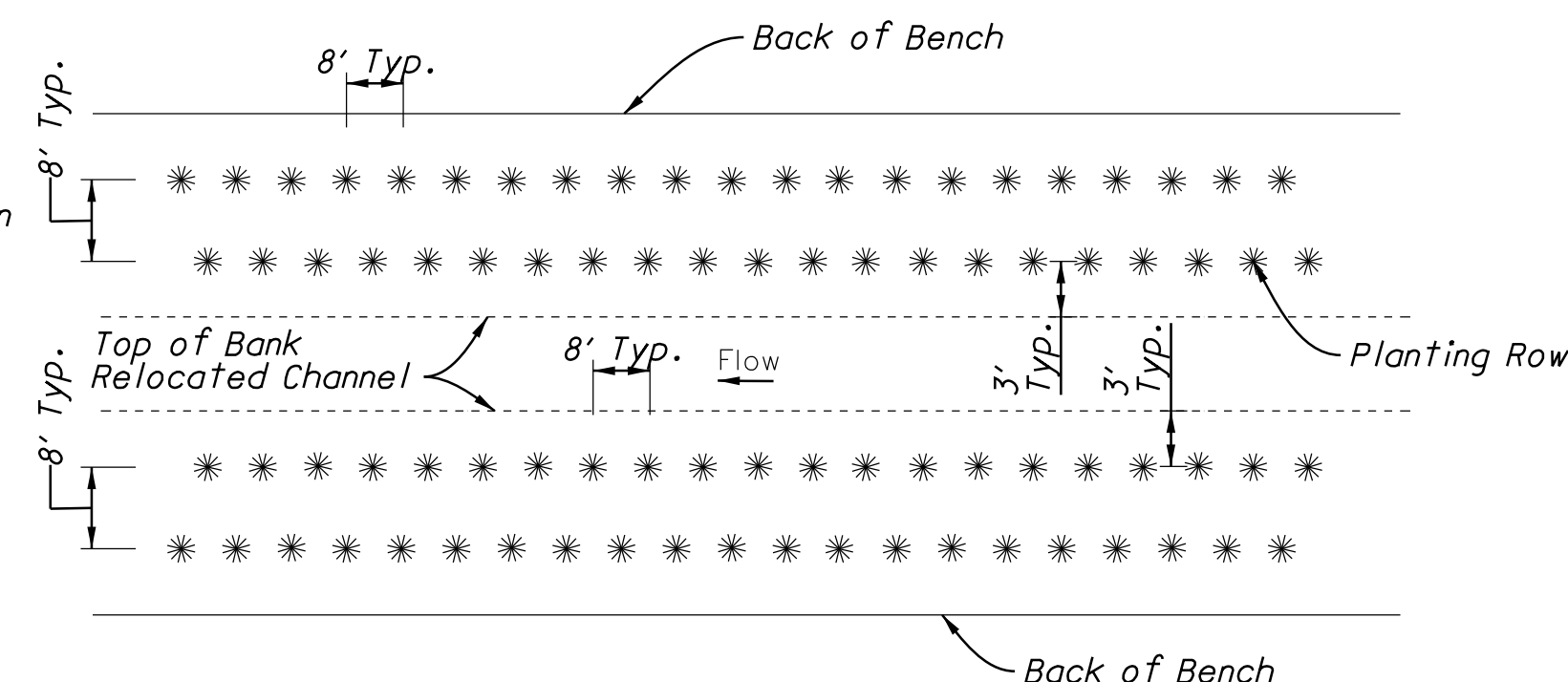
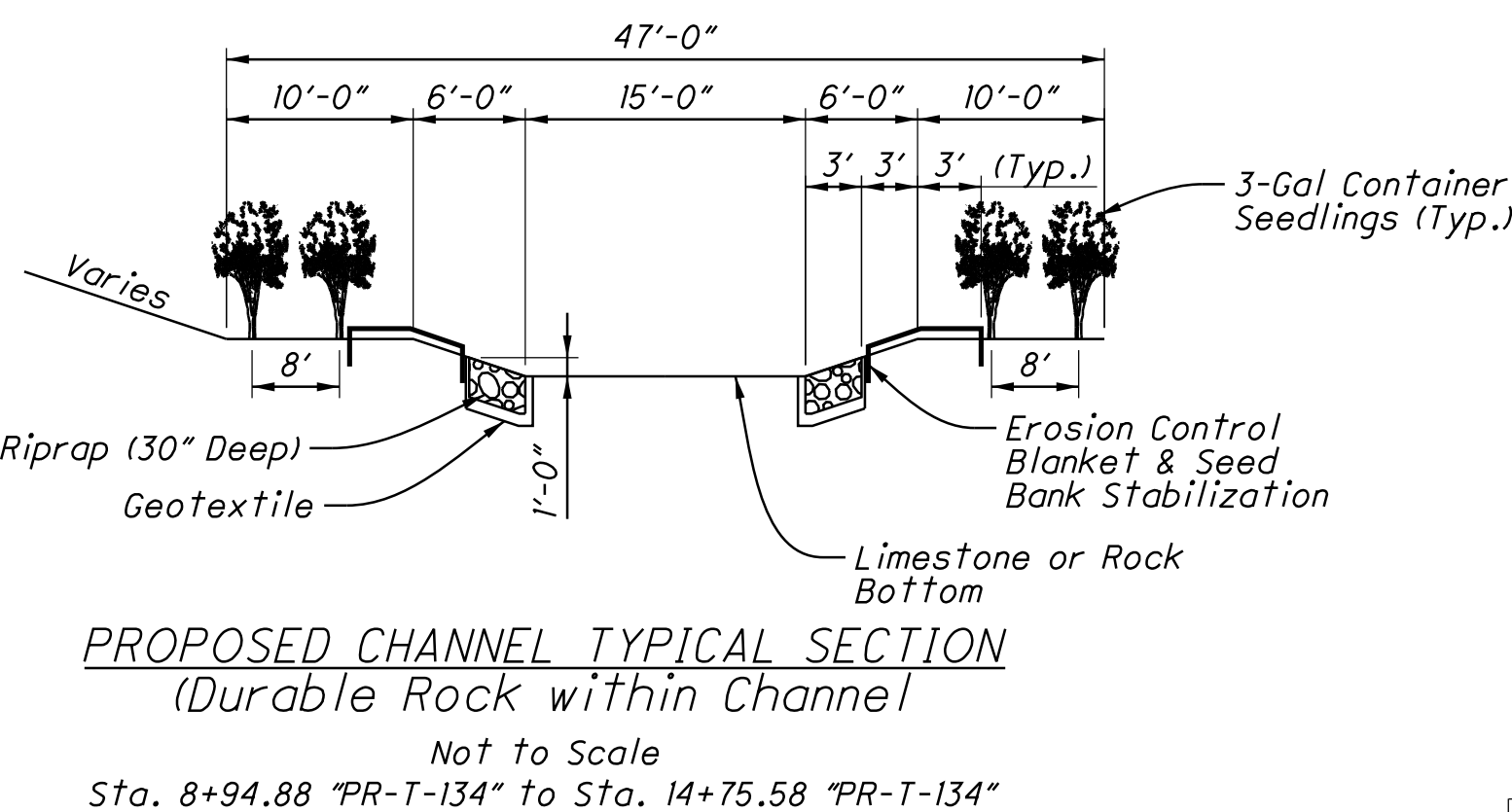
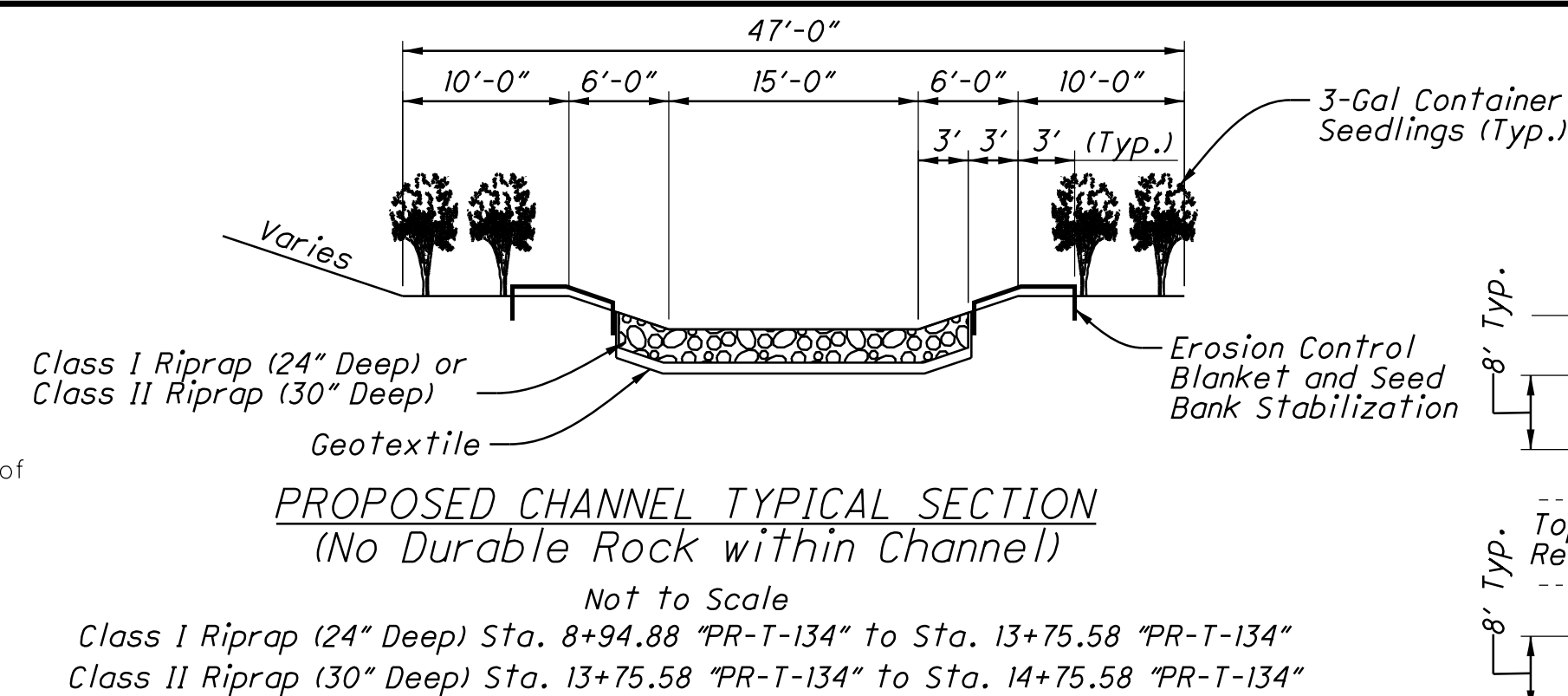
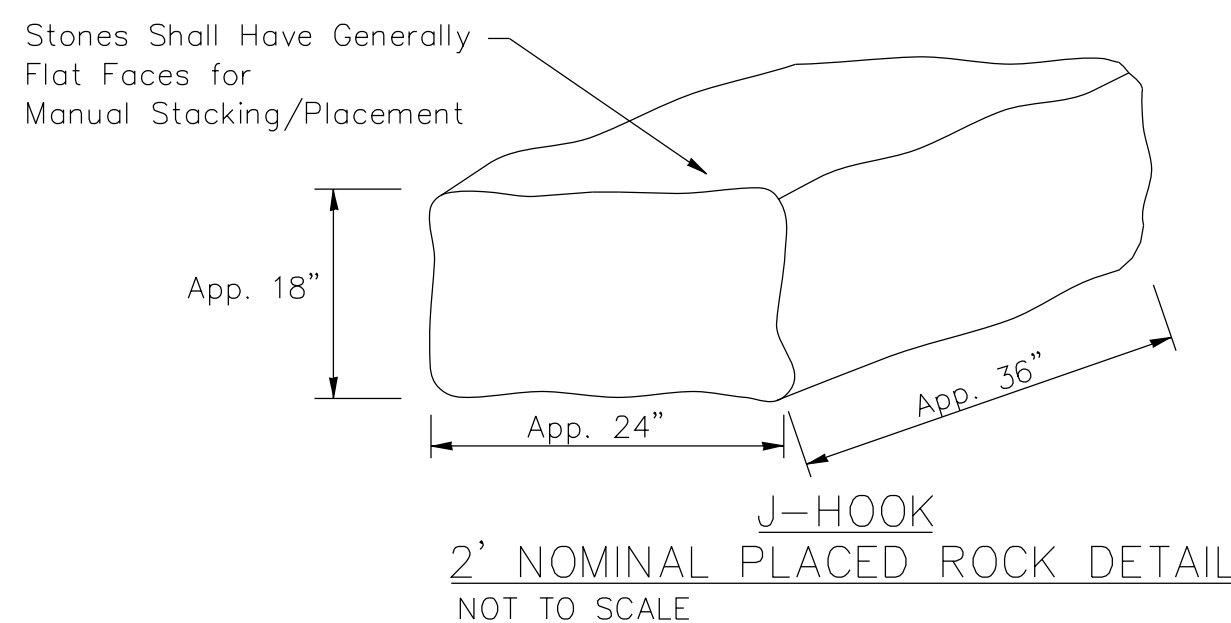
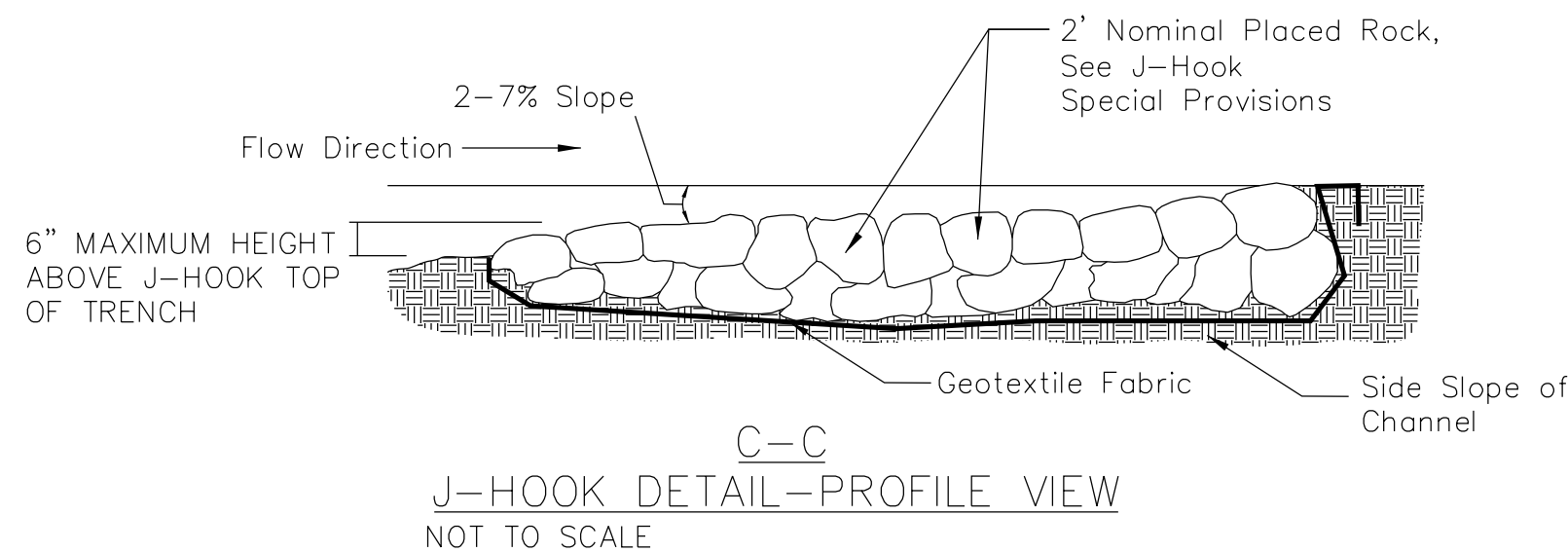
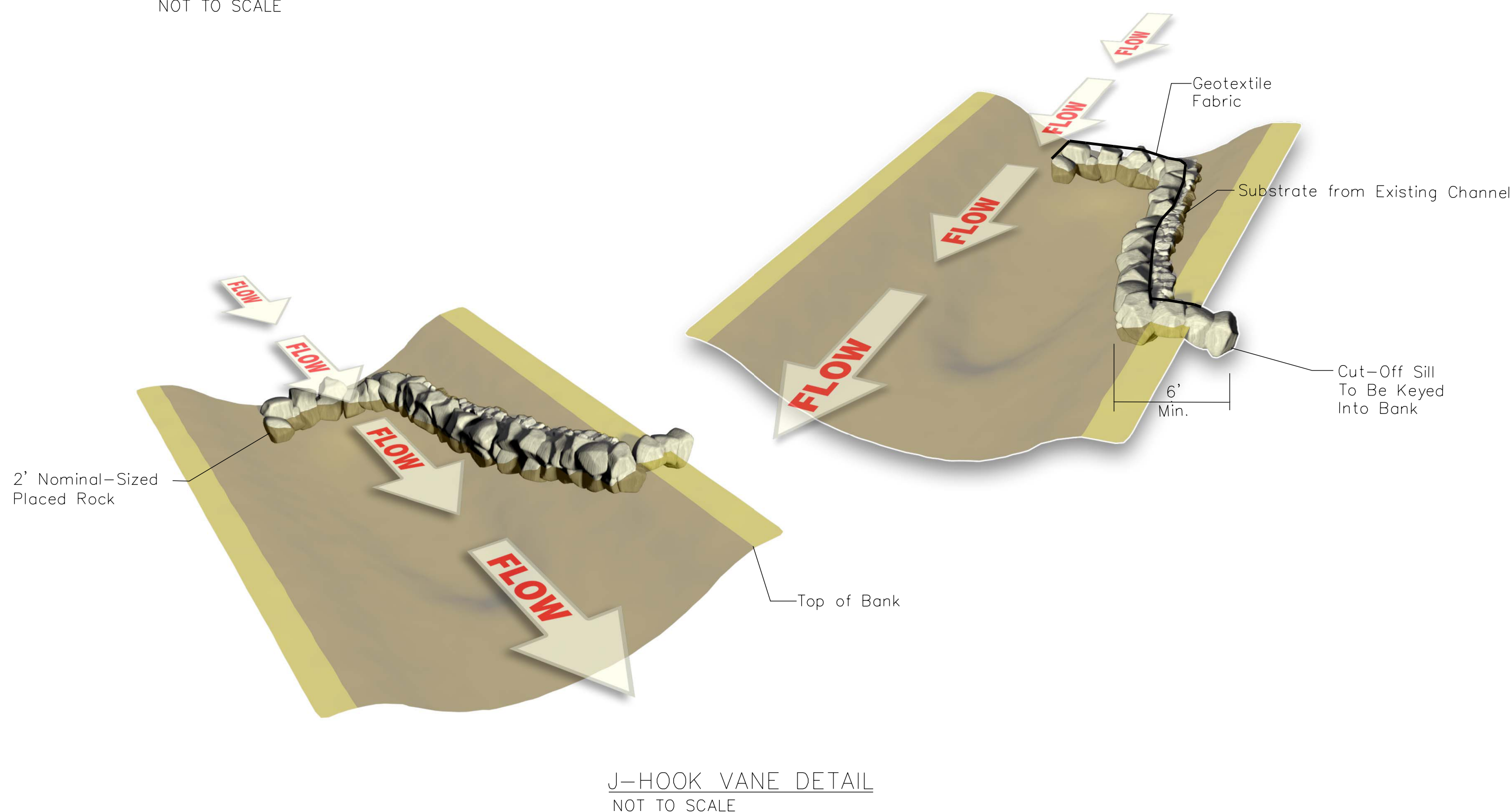
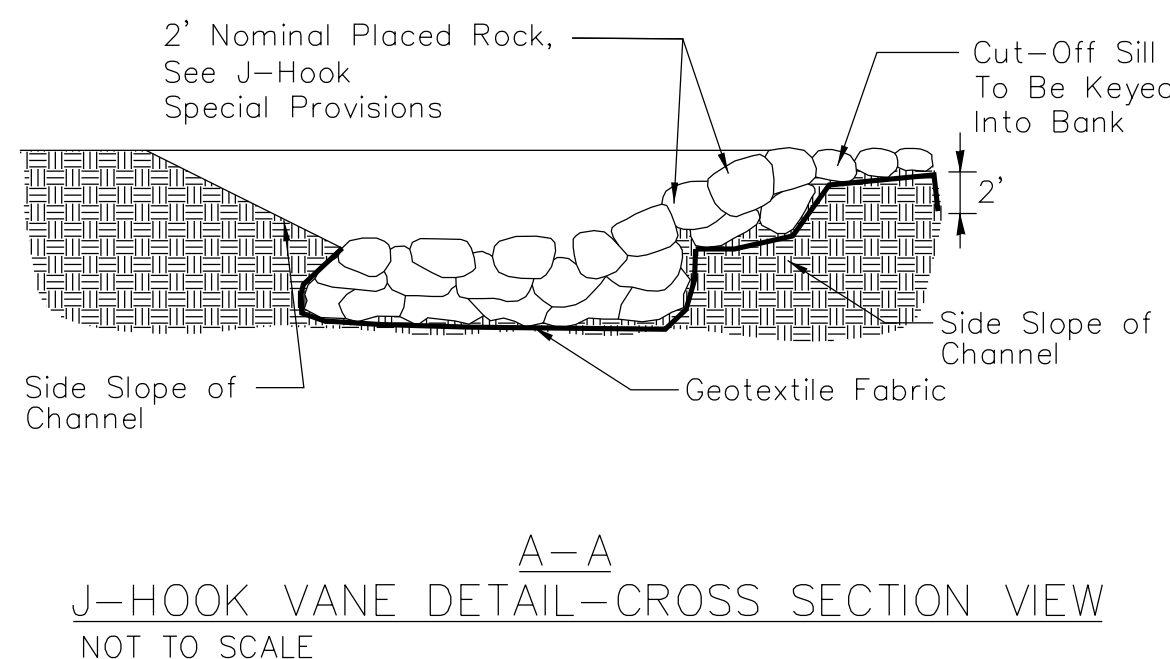
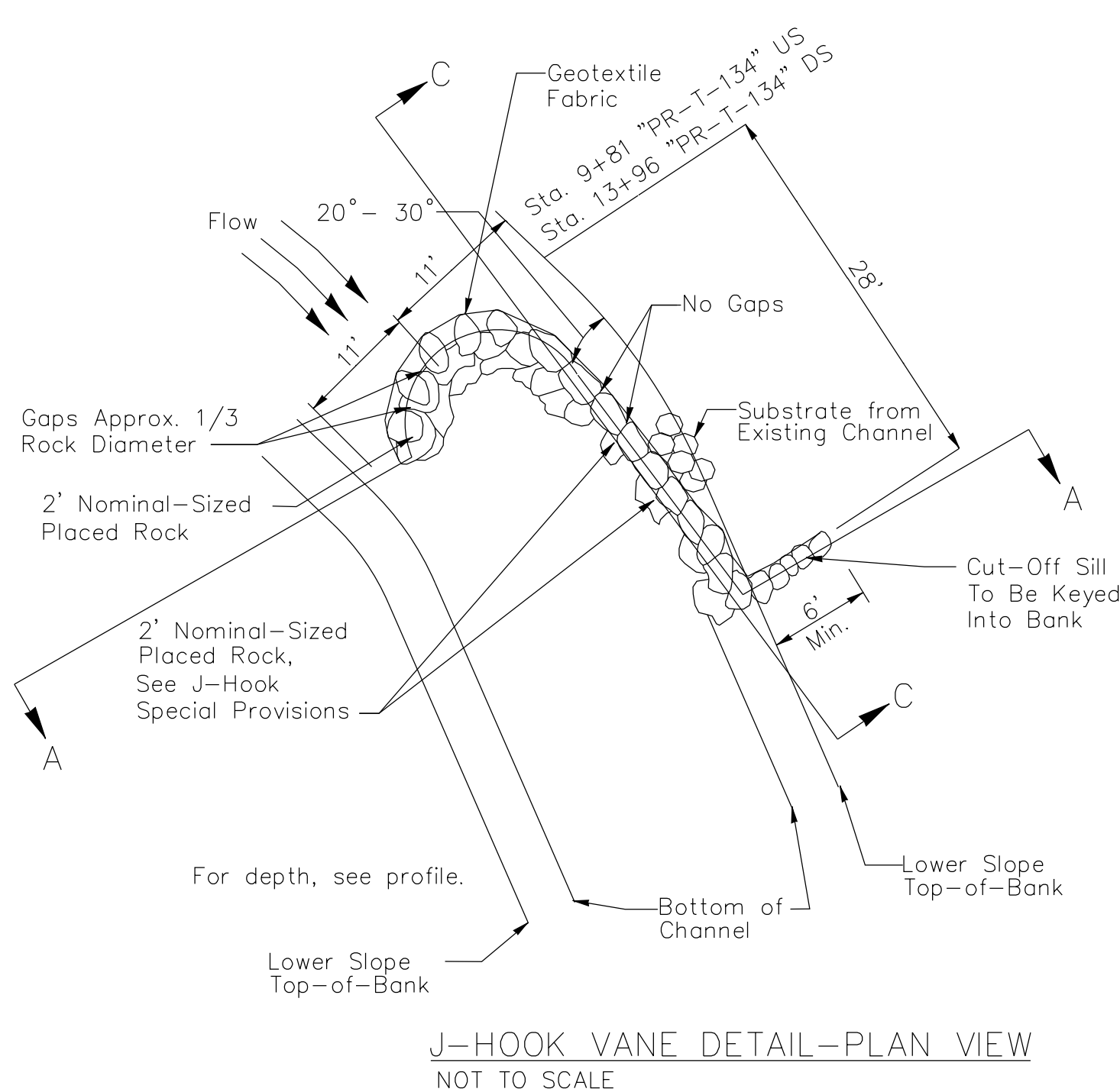
All R/W on this sheet described from
Line "PR-A" except as noted.

② See Typical Section for Construction Materials

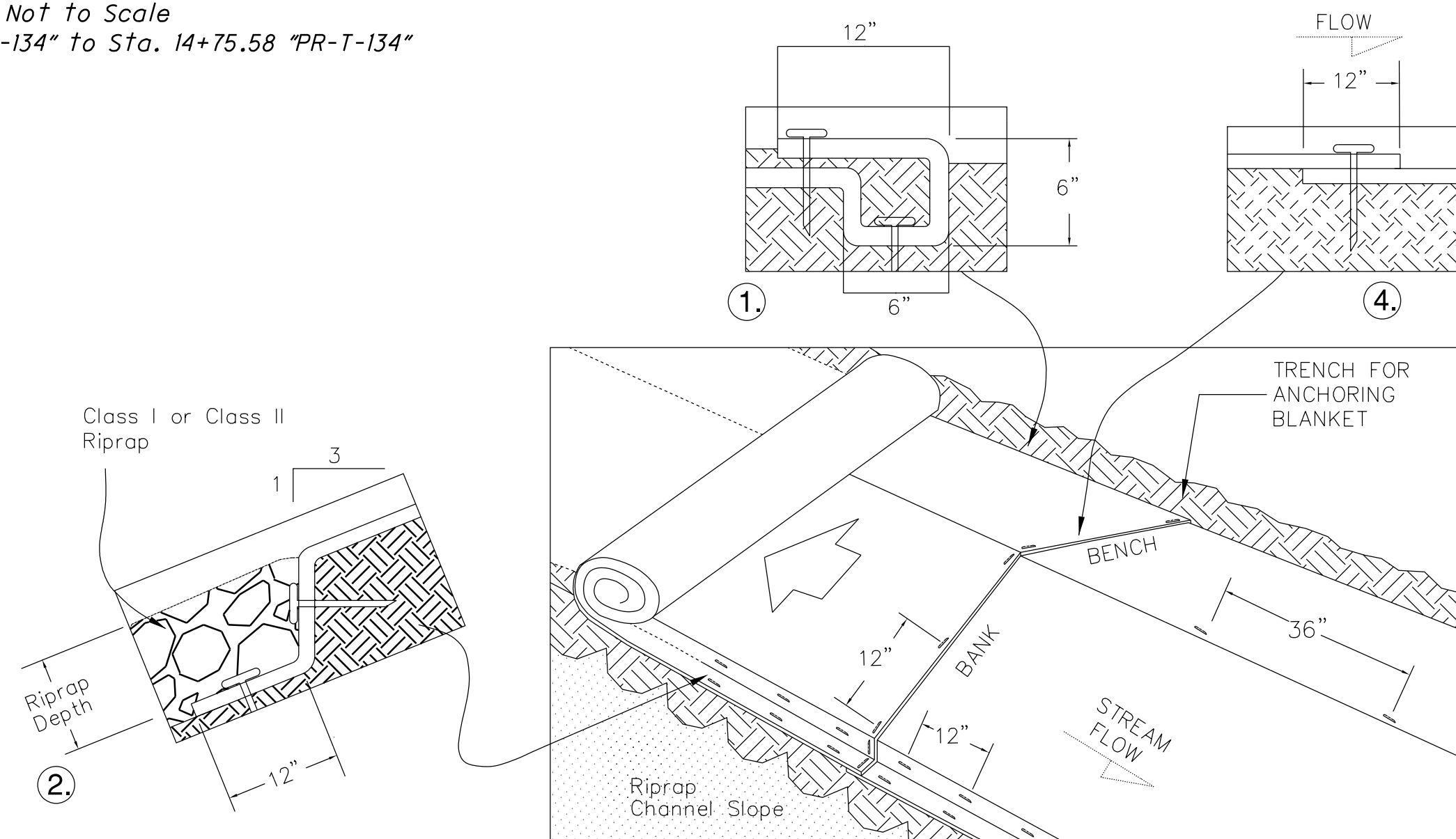
① 165 lb/yd² HMA, Type B, Surface, on
275 lb/yd² HMA, Type B, Intermediate, on
660 lb/yd² HMA, Type B, Base, on
Subgrade Treatment (Type IC)

① 165 lb/yd² HMA, Type B, Surface

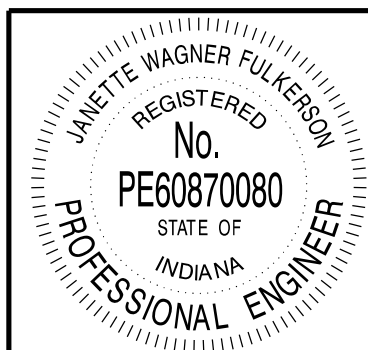
09/25/12 - Miscellaneous revisions



Two Rows of 3-Gal. Container Seedlings shall be planted on both sides of the realigned channel.



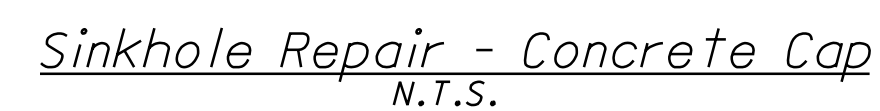
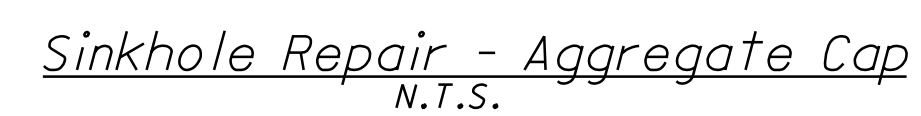
- BEGIN AT THE DOWNSTREAM END OF THE REALIGNED CHANNEL. ROLL THE BLANKET FROM DOWNSTREAM TO UPSTREAM. ANCHOR THE UP-SLOPE SIDE OF THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION BACK OVER SEED AND COMPACTED SOIL. SECURE THE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- THE EDGE OF THE BLANKET AT UPPER ELEVATION OF CL. I OR CL. II RIPRAP SHALL BE ANCHORED BY PLACING THE BLANKET IN A TRENCH KEYED INTO THE PROPOSED CHANNEL SLOPE AS SHOWN. ANCHOR THE BLANKET WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ON THE SIDE AND BOTTOM OF THE TRENCH. BACKFILL WITH RIPRAP AFTER STAKING. THIS MAY BE BEST ACCOMPLISHED BY INSTALLING THE BLANKET IMMEDIATELY AFTER OVER-EXCAVATION OF THE CONSTRUCTED CHANNEL AND PRIOR TO PLACEMENT OF THE RIPRAP.
- ALL BLANKETS SHALL BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN ABOVE. STAKING SHALL BE A MAXIMUM OF 12" APART ALONG ALL EDGES AND OVERLAPS AND A MAXIMUM OF 36" APART THROUGHOUT THE REMAINDER OF THE BLANKET.
- THE EDGES OF ALL HORIZONTAL AND VERTICAL SEAMS SHALL BE STAPLED WITH APPROXIMATELY 8" - 12" OVERLAP. NOTE: *SEAM OVERLAP SHALL BE SHINGLED ACCORDING TO PREDOMINANT EROSION ACTION (EDGE OF UPSTREAM/UP-SLOPE BLANKET OVER TOP OF THE DOWNSTREAM/DOWNSLOPE BLANKET).
- WHERE THE STREAM CHANNEL IS CONSTRUCTED WITH A FLAT BENCH, THE BLANKET SHALL EXTEND ONTO, AND SHALL BE ANCHORED WITHIN A TRENCH DUG ON THE BENCH.
- WHERE RIPRAP IS SPECIFIED ADJACENT TO THE BLANKET (e.g. ROADSIDE DITCH OUTFALLS), THE RIPRAP SHALL BE PLACED OVER THE BLANKET FOLLOWING STAKING. NOTE: *IN LOOSE SOIL CONDITIONS, THE USE OF STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKET.



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWF	DRAWN: BDM	
CHECKED: MDO	CHECKED: JWF	

INDIANA DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS DETAILS J-HOOK & EROSION CONTROL BLANKET DETAILS

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MISC-05
CONTRACT IR-33742	SHEETS 99 of 173
	PROJECT 1006075



DESIGNED: _____ MDO	DRAWN: _____ BDM
CHECKED: _____ HCF	CHECKED: _____ MDO

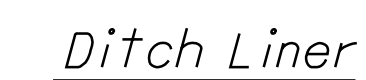
MISCELLANEOUS DETAILS
KARST DETAILS

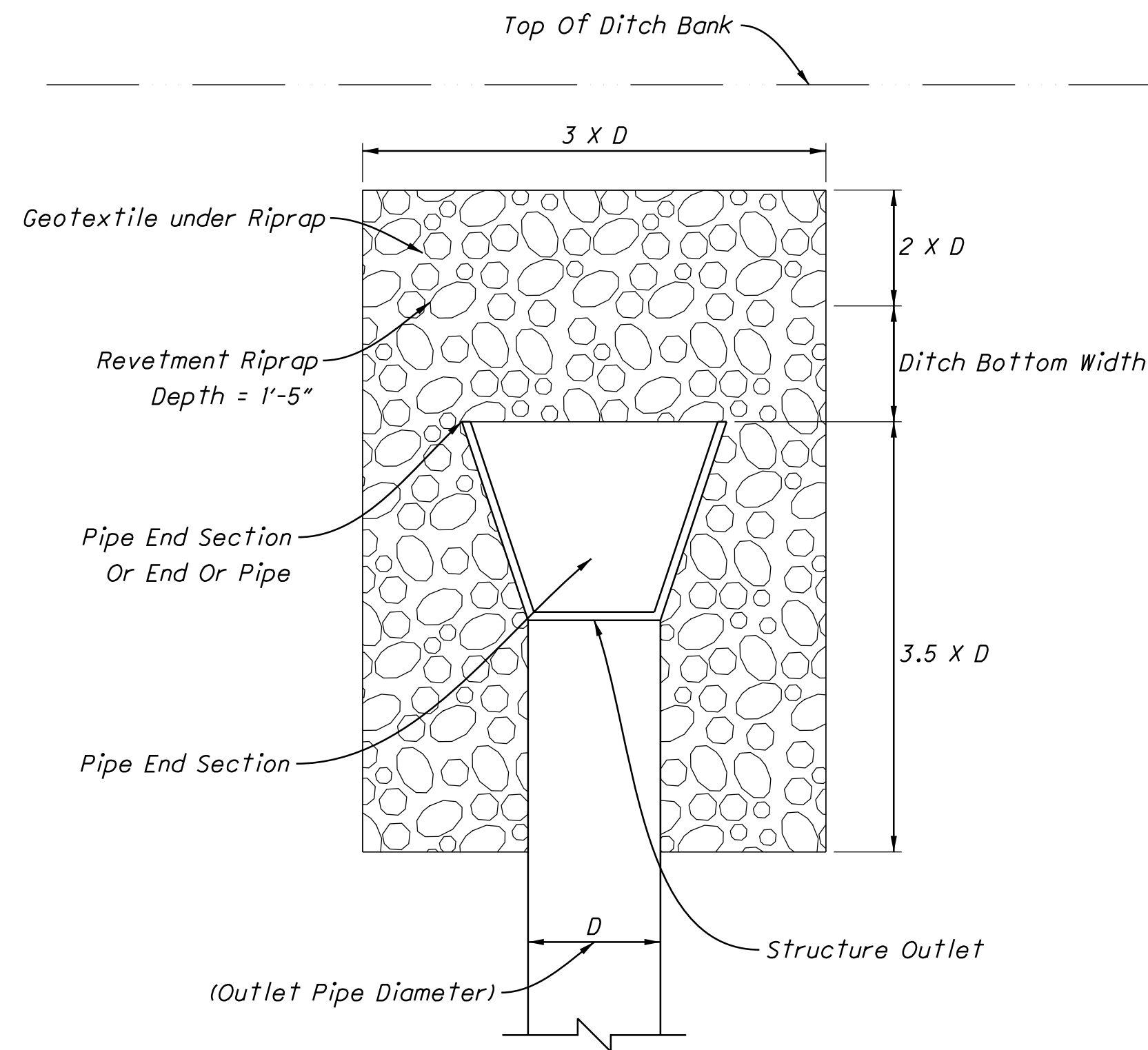
HORIZONTAL SCALE	BRIDGE FILE
<i>N.T.S.</i>	<i>N/A</i>
VERTICAL SCALE	DESIGNATION
	<i>1006075</i>

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	<i>MD-02</i>	<i>100 of 173</i>
CONTRACT	PROJECT	
<i>IR-33742</i>	<i>1006075</i>	

DITCH LINER (GEOMEMBRANE)								
Limits					Offset	Length (ft)	Width (ft)	SYS
1475+30	"A"	to	1477+30	"A"	RT	200	4	365
1480+75	"A"	to	1484+40	"A"	LT	365	4	666
1496+50	"PR-A"	to	1498+50	"PR-A"	LT	200	4	365
1508+00	"PR-A"	to	1512+50	"PR-A"	RT	450	4	822
1518+85	"PR-A"	to	1521+00	"PR-A"	RT	215	4	1520
1523+25	"PR-A"	to	1524+70	"PR-A"	RT	145	4	265
1526+85	"PR-A"	to	1527+50	"PR-A"	RT	65	4	119
1533+25	"PR-A"	to	1538+10	"PR-A"	LT	485	4	886
1552+00	"NWR-3"	to	1554+50	"NWR-3"	RT	250	0	234
1558+00	"NWR-3"	to	1561+00	"NWR-3"	RT	300	0	
1576+60	"NWR-3"	to	1577+42	"NWR-3"	RT	82	0	77
1576+15	"NWR-3"	to	1579+00	"NWR-3"	LT	285	0	267
523+00	"SEL-3"	to	524+44	"SEL-3"	RT	144	0	135
516+00	"SEL-3"	to	523+50	"SEL-3"	LT	750	0	703
1519+10	"SER-3"	to	1524+00	"SER-3"	LT	490	0	460
1519+50	"SER-3"	to	1522+00	"SER-3"	RT	250	0	234
		to						

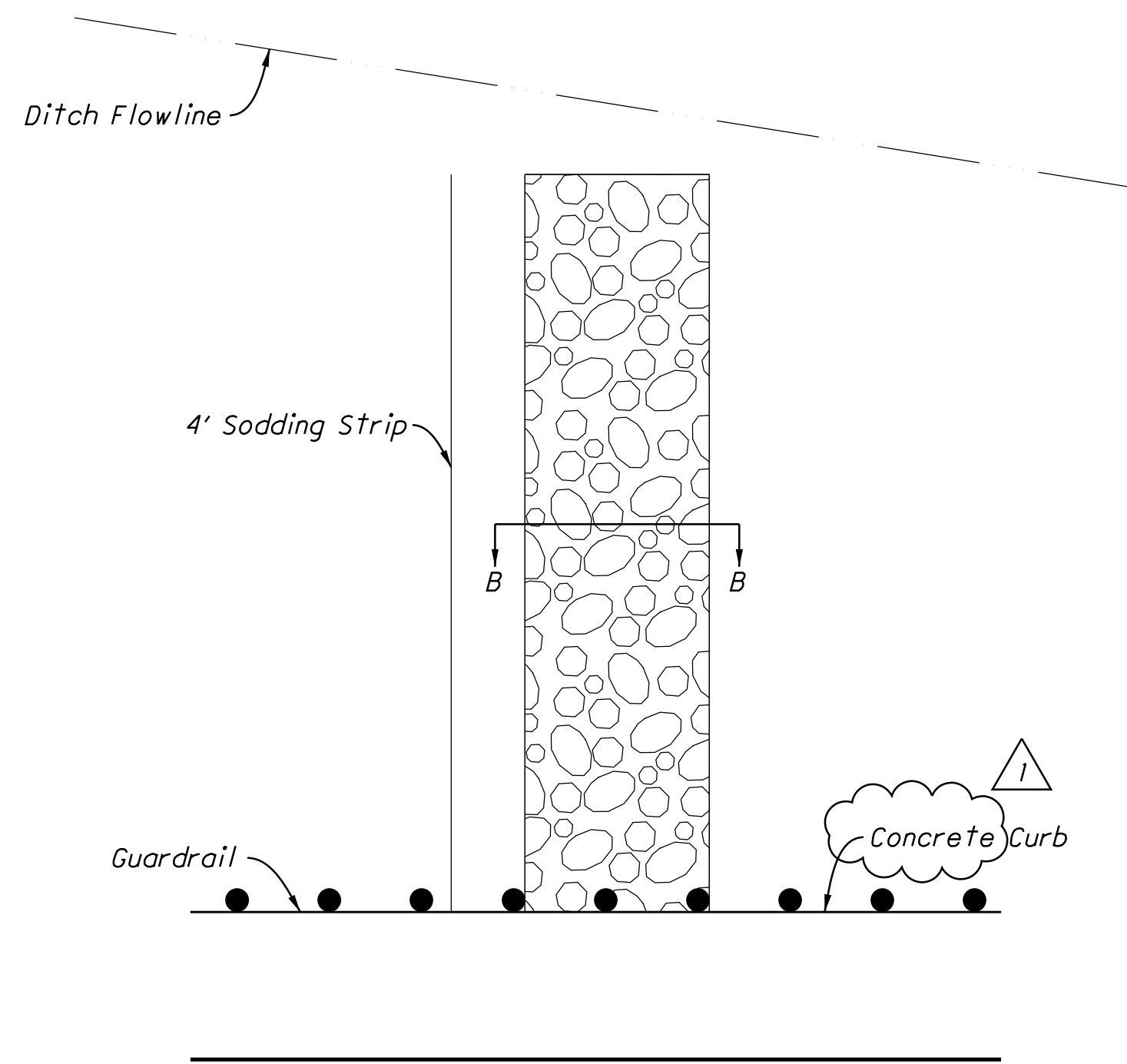
* = Attach to Invert of Structure per Manufacturer's Recommendation





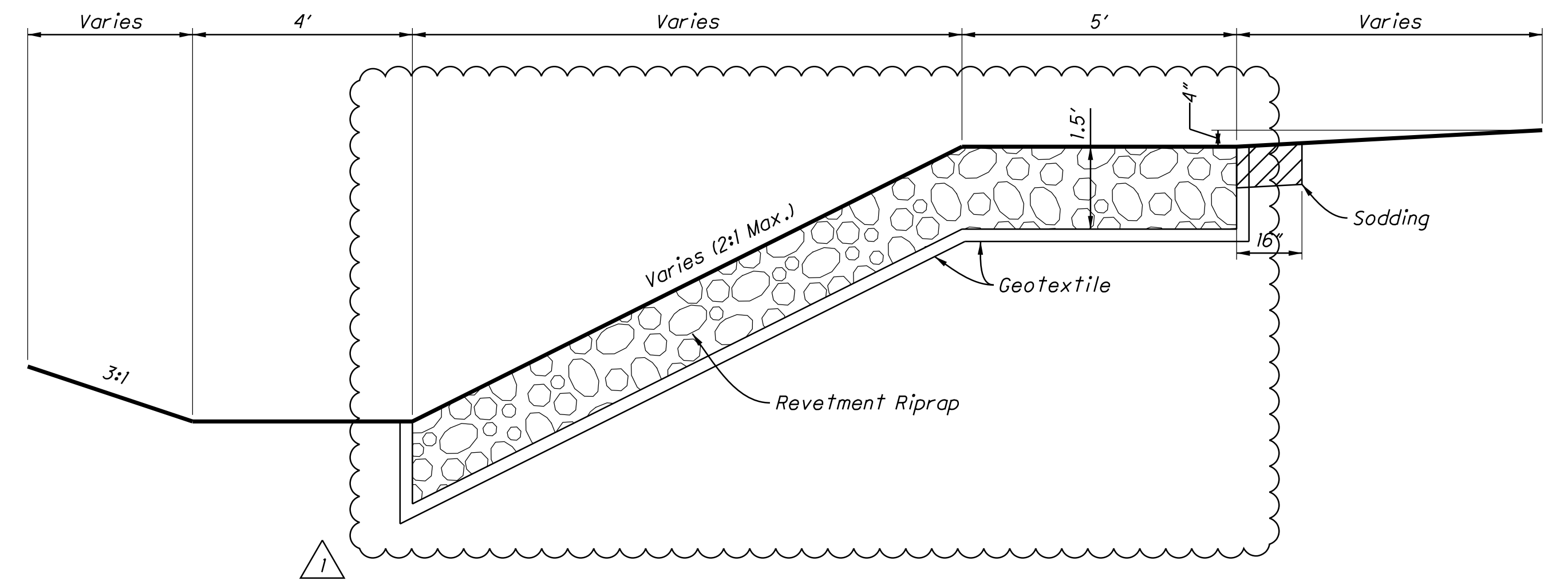
Detail Of Riprap @ Str. Outlet Str. Perpendicular To Ditch

N.T.S.
D = Diameter of Circular Pipe In Feet
D = Height Of Deformed Pipe In Feet



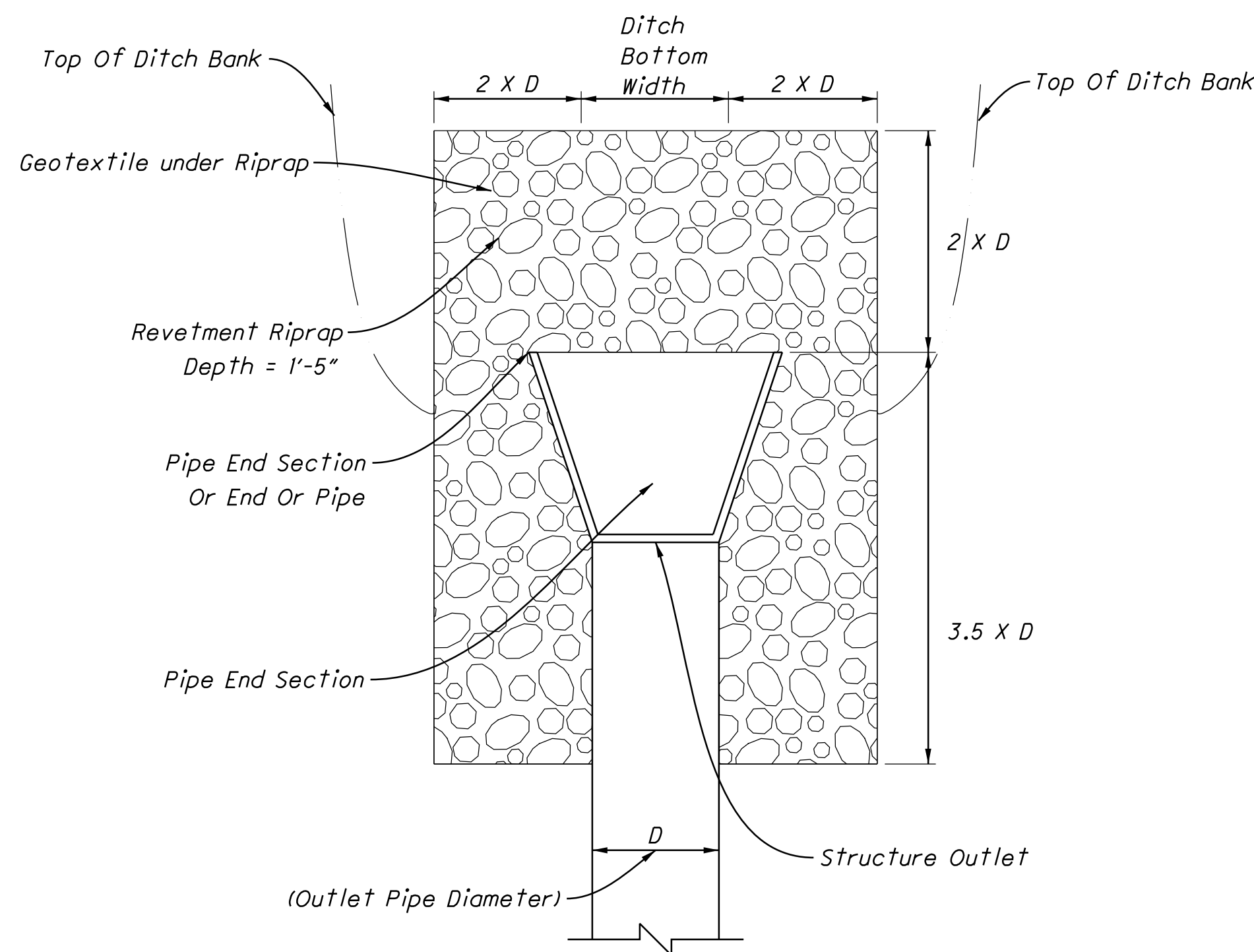
Riprap Drainage Turnout Plan View

N.T.S.



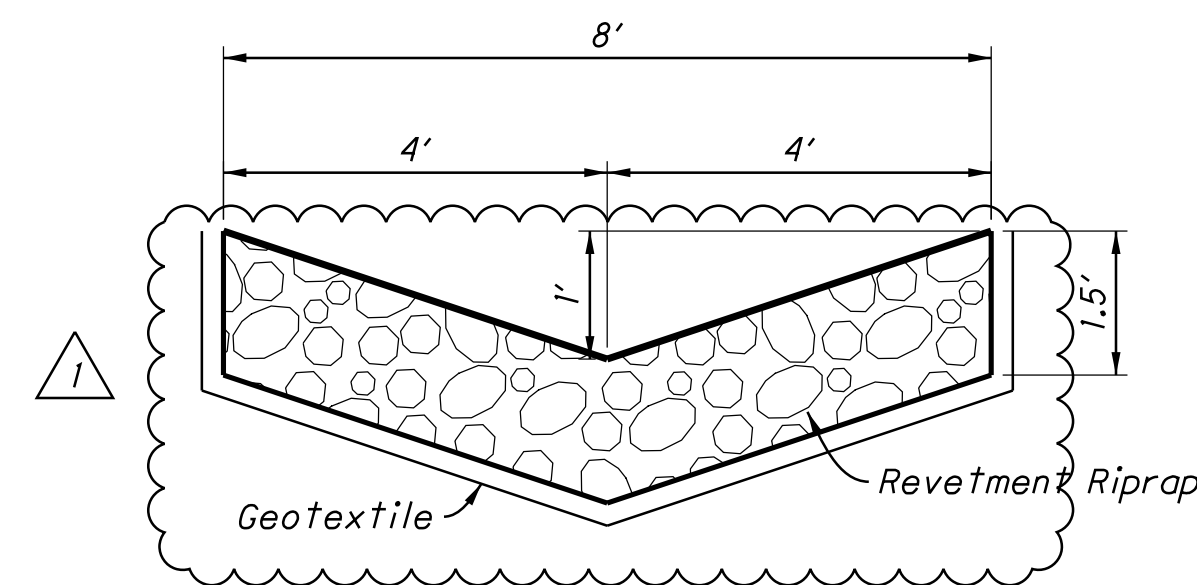
Ditch Backslope Protection

N.T.S.



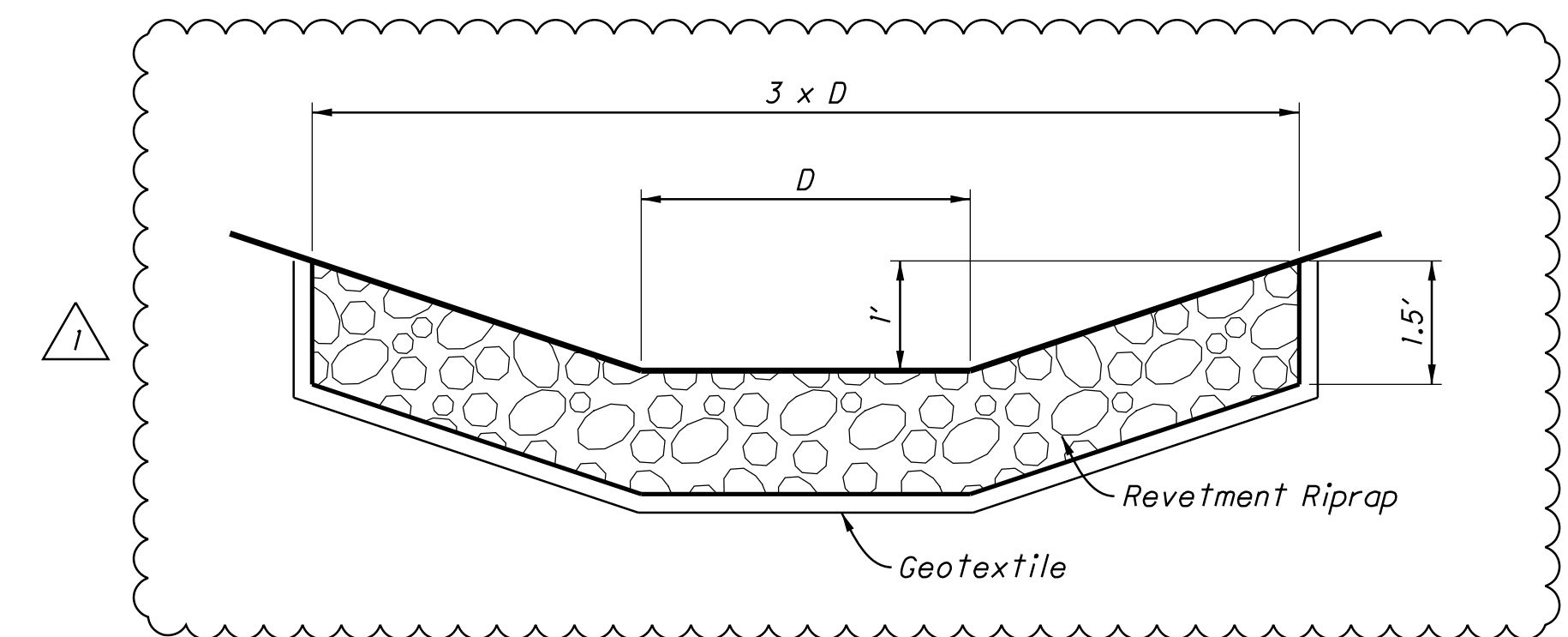
Detail Of Riprap @ Str. Outlet Str. Parallel To Ditch

N.T.S.
D = Diameter of Circular Pipe In Feet
D = Height Of Deformed Pipe In Feet



Riprap Drainage Turnout Section B-B

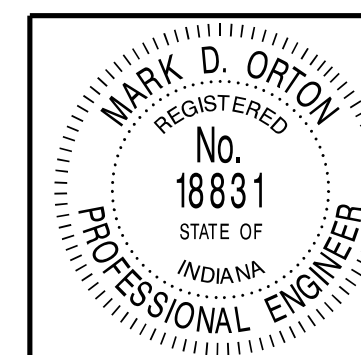
N.T.S.



Detail Of Riprap @ Str. Outlet Str. Perpendicular To Ditch

N.T.S.
D = Diameter of Circular Pipe In Feet
D = Height Of Deformed Pipe In Feet

DATE: 10/1/2012
TIME: 10:42:55 AM
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\25627500R1.MD03-AE.dgn

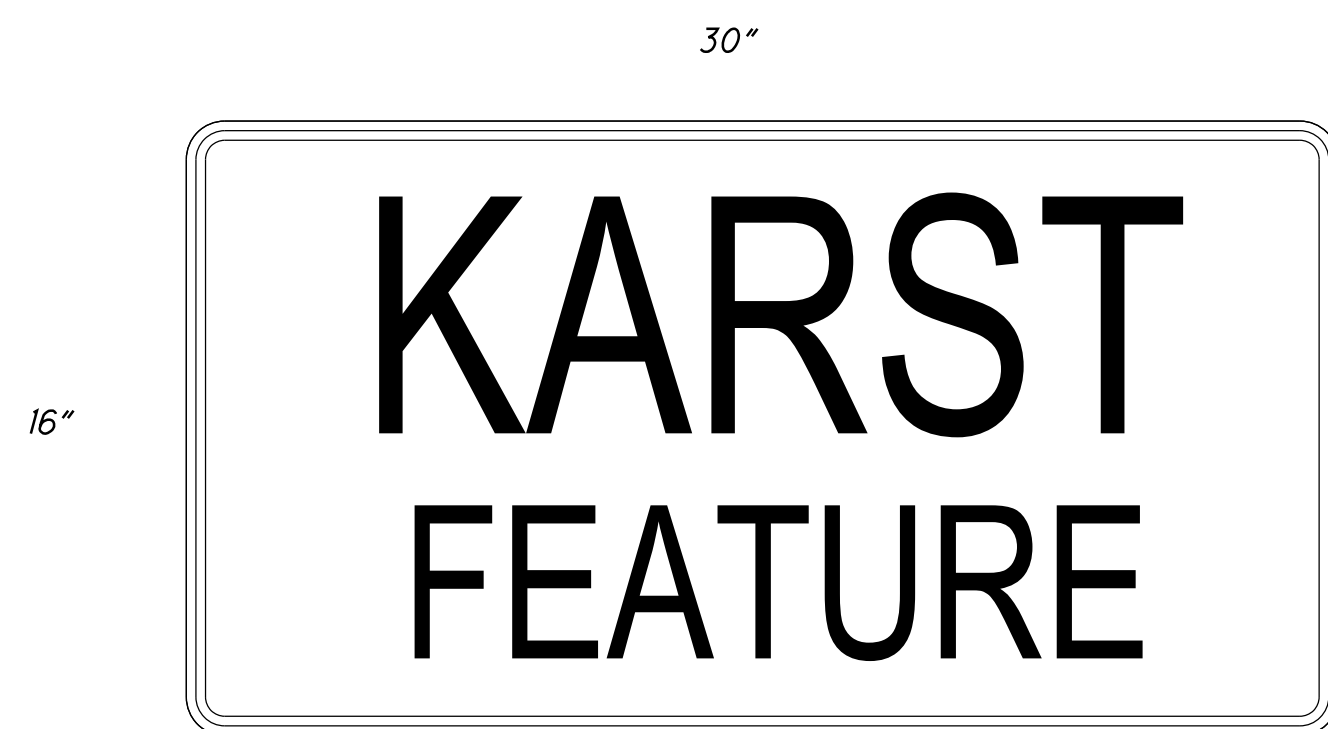
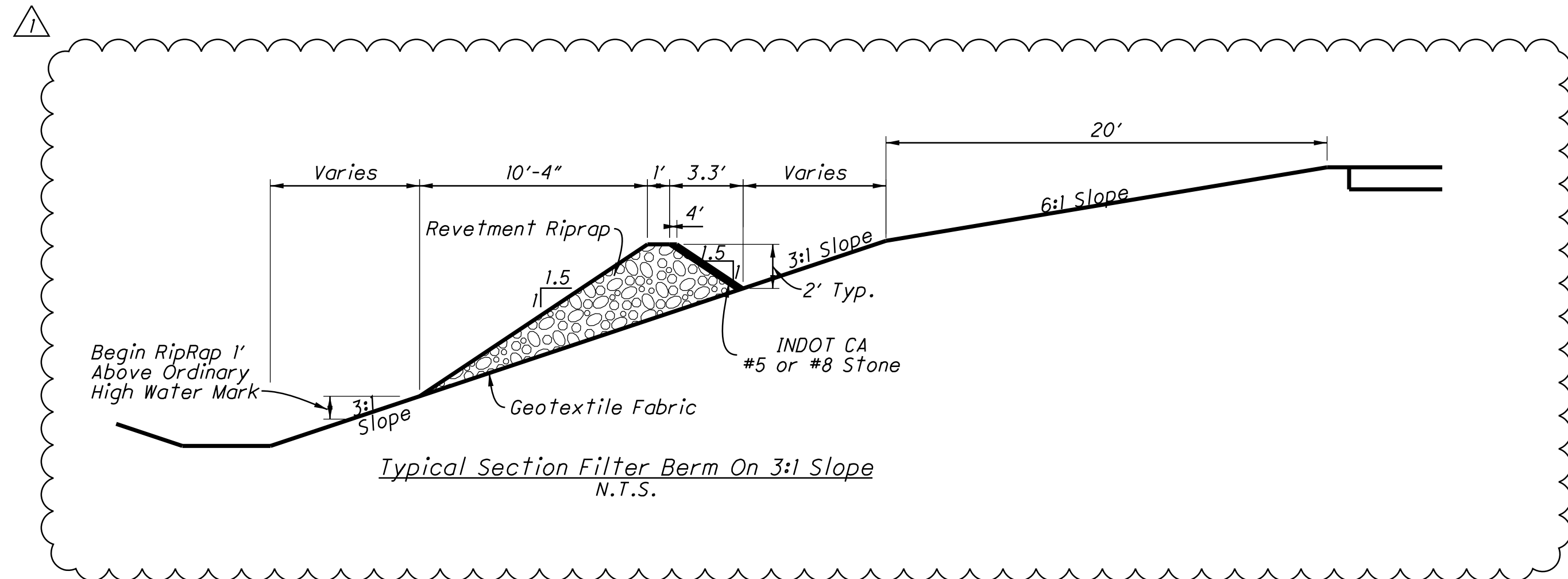


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: BDM	
CHECKED: HCF	CHECKED: MDO	

INDIANA
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
RIPRAP DETAILS

HORIZONTAL SCALE 1/8" = 1'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MD-03
CONTRACT IR-33742	SHEETS 101 of 173
	PROJECT 1006075

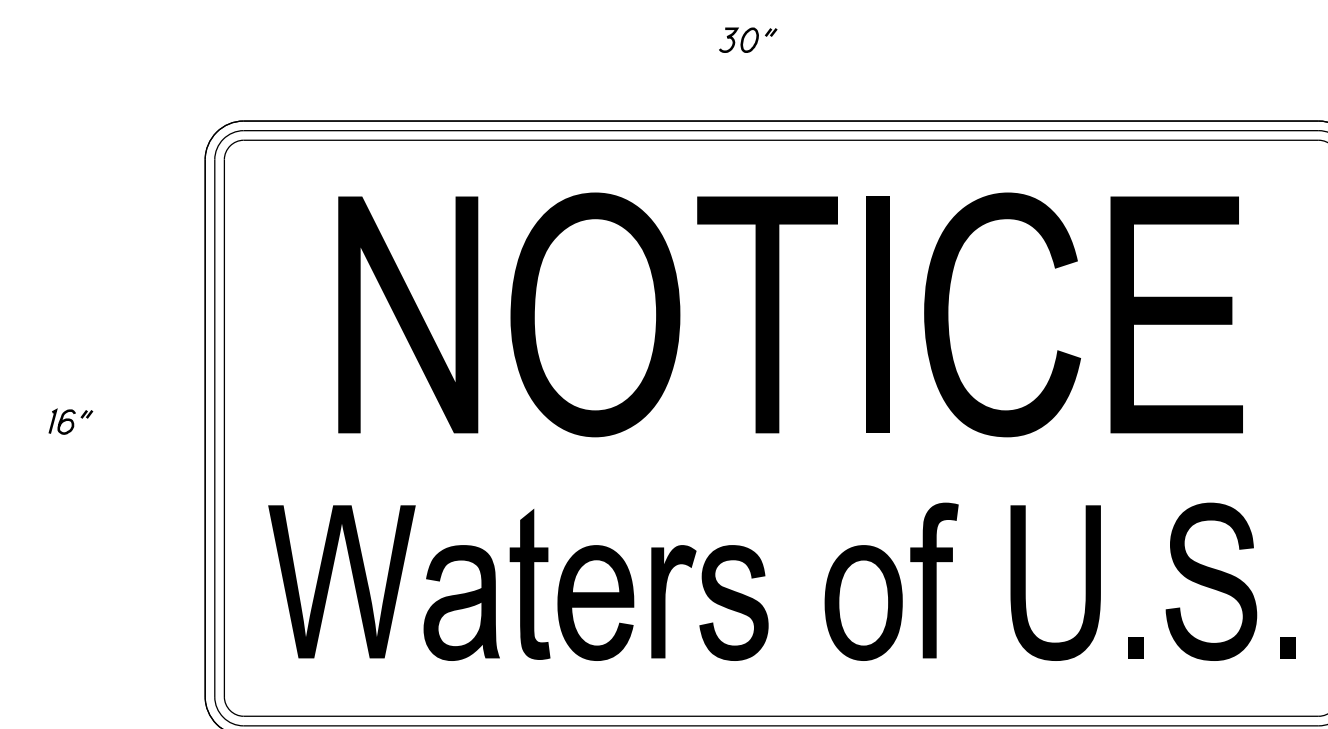


SP-1
N.T.S.

6" U.C. "B" Series

4" U.C. "B" Series

Black Legend on White Background
1.00" Radius
0.50" Border
Area = 3.33 Sft




SP-2
N.T.S.

6" U.C. "B" Series

4" U.C. "B" Series
3" U.C. "B" Series (40% Spacing)
4" U.C. "B" Series (40% Spacing)

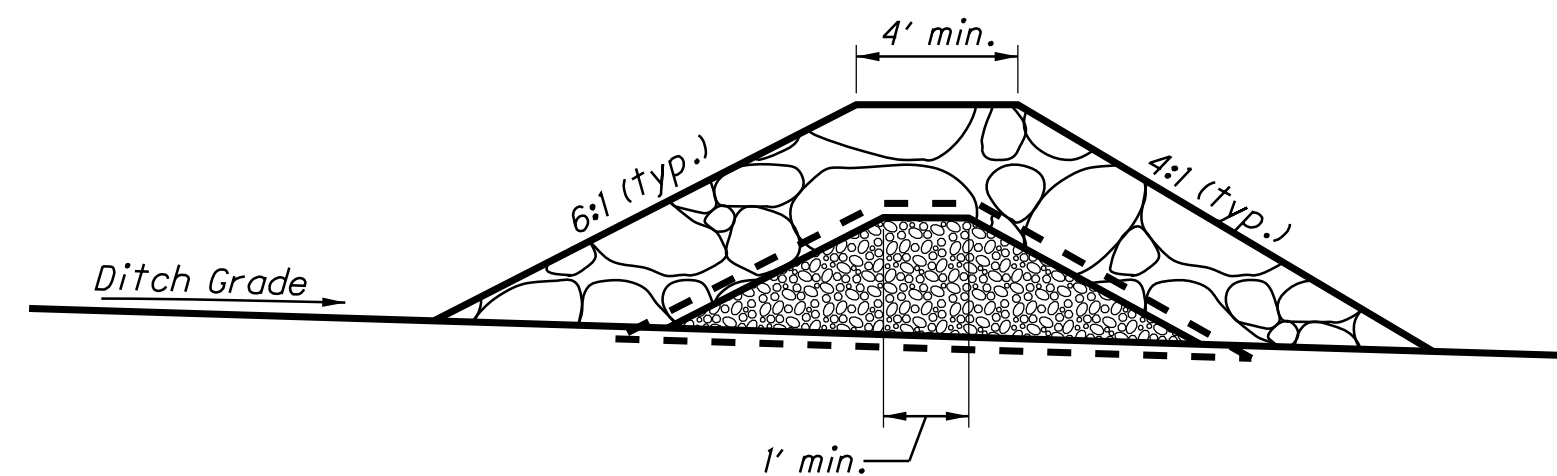
Black Legend on White Background
1.00" Radius
0.50" Border
Area = 3.33 Sft



RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER	9/6/10 DATE	
DESIGNED: _____	MDO	DRAWN: _____	BDM
CHECKED: _____	HCF	CHECKED: _____	MDO

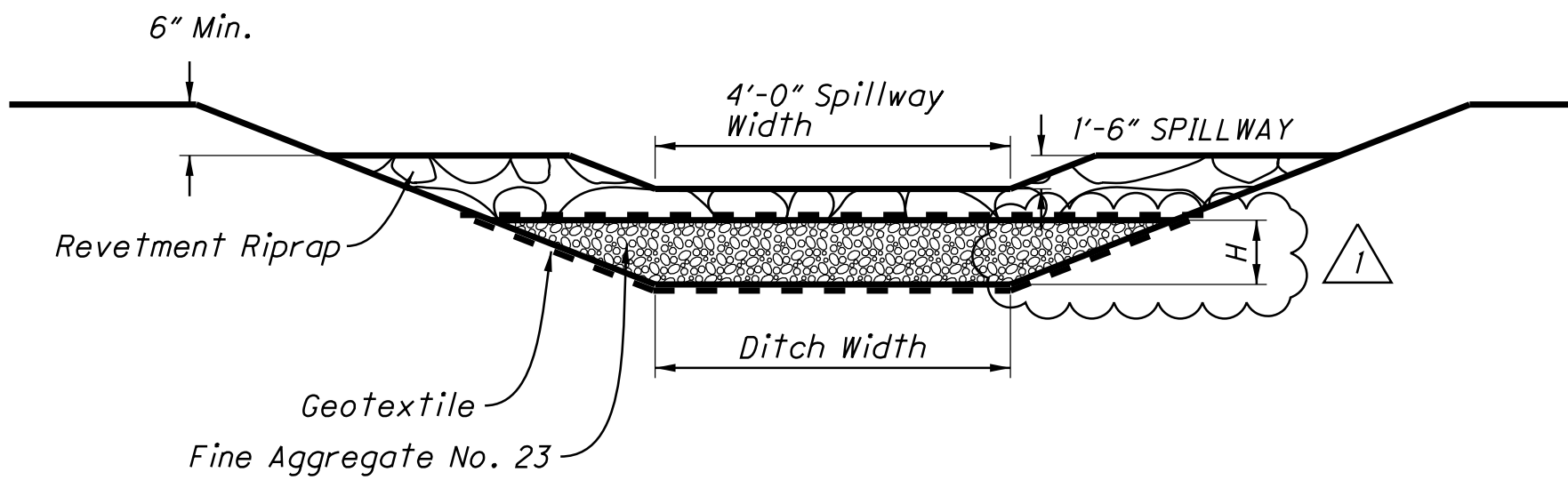
INDIANA DEPARTMENT OF TRANSPORTATION	
MISCELLANEOUS DETAILS FILTER BERM & SIGN DETAILS	

HORIZONTAL SCALE As Shown	BRIDGE FILE N/A
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MD-04
CONTRACT IR-33742	SHEETS 102 of 173
	PROJECT 1006075

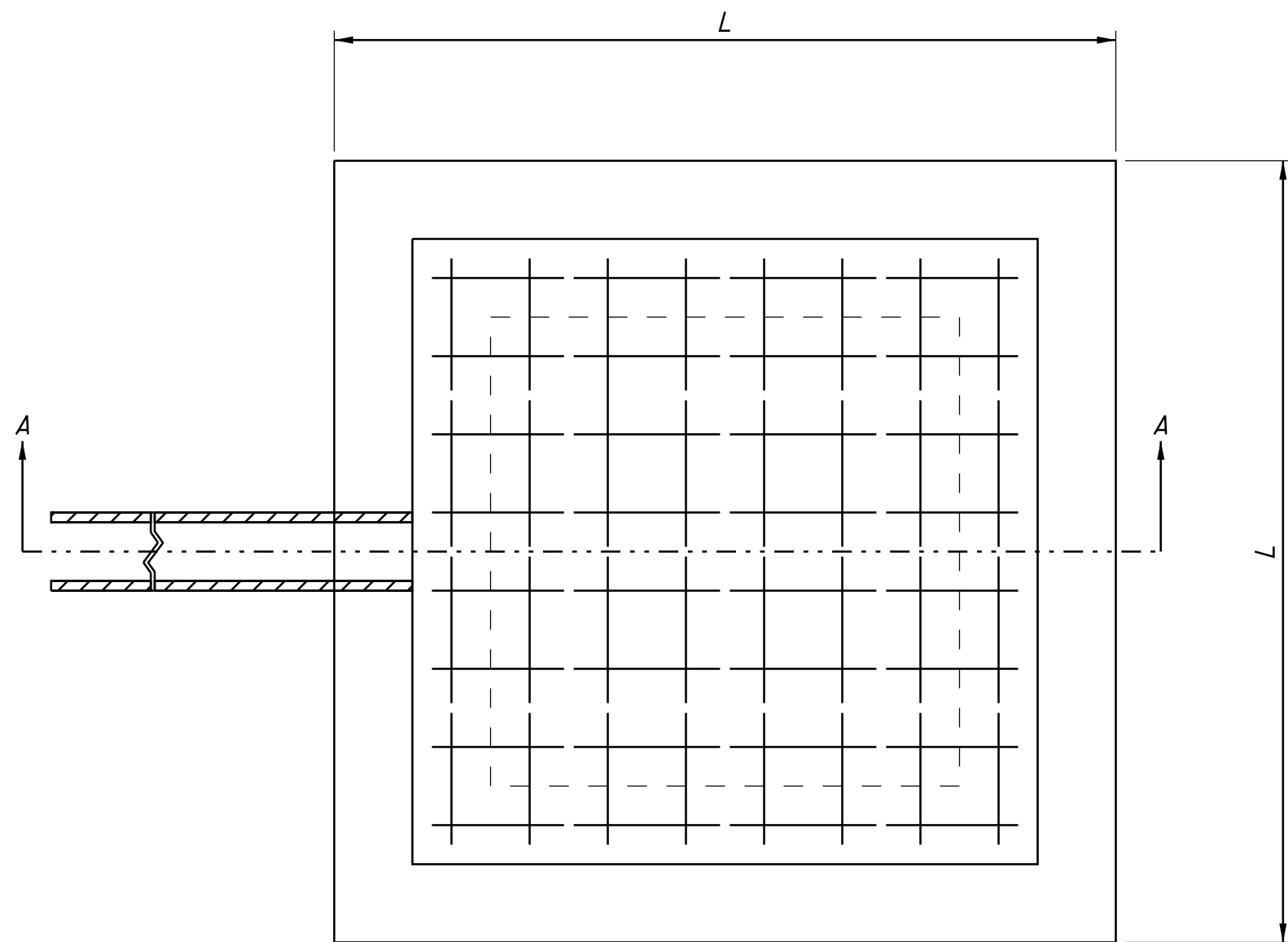


SPILL CONTAINMENT DETAIL
PROFILE VIEW
Scale: N.T.S.

Spill Containment Location Table				
Station	LEFT	RIGHT	CONTAINMENT DAM HEIGHT (FT)	DITCH WIDTH (FT)
Line "PR-A"			H	W
1464+00		X	6.4'	10'
1464+00	X		8.5'	10'
1468+50		X	6.6'	4'
1468+50	X		5.5'	4'

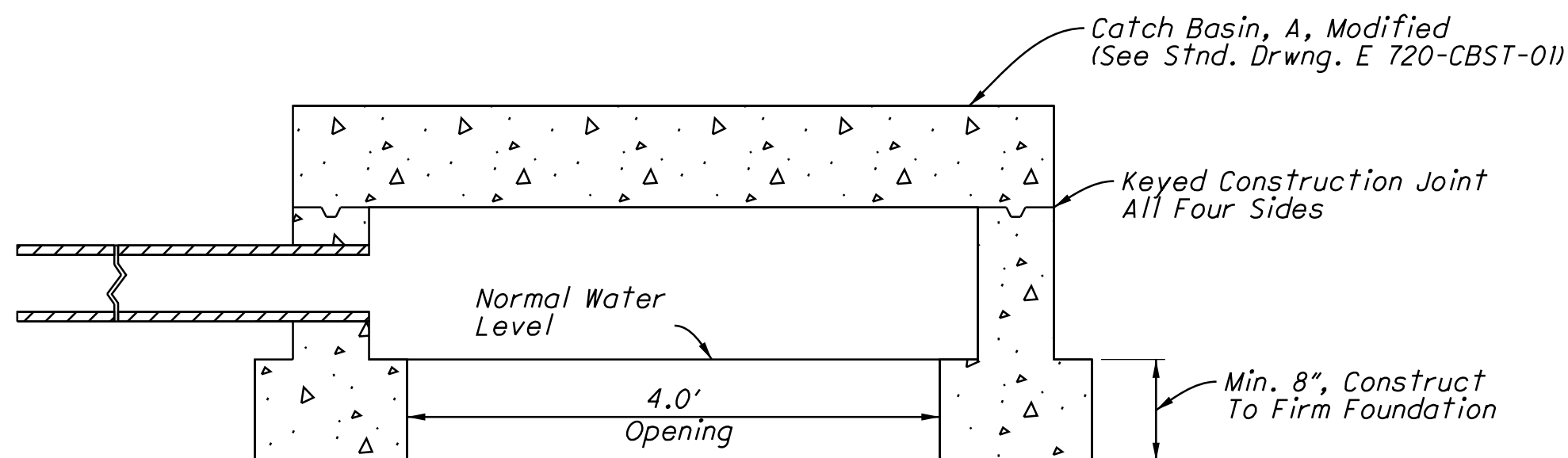


SPILL CONTAINMENT DETAIL
SECTION A-A
Scale: N.T.S.



Springbox - Plan

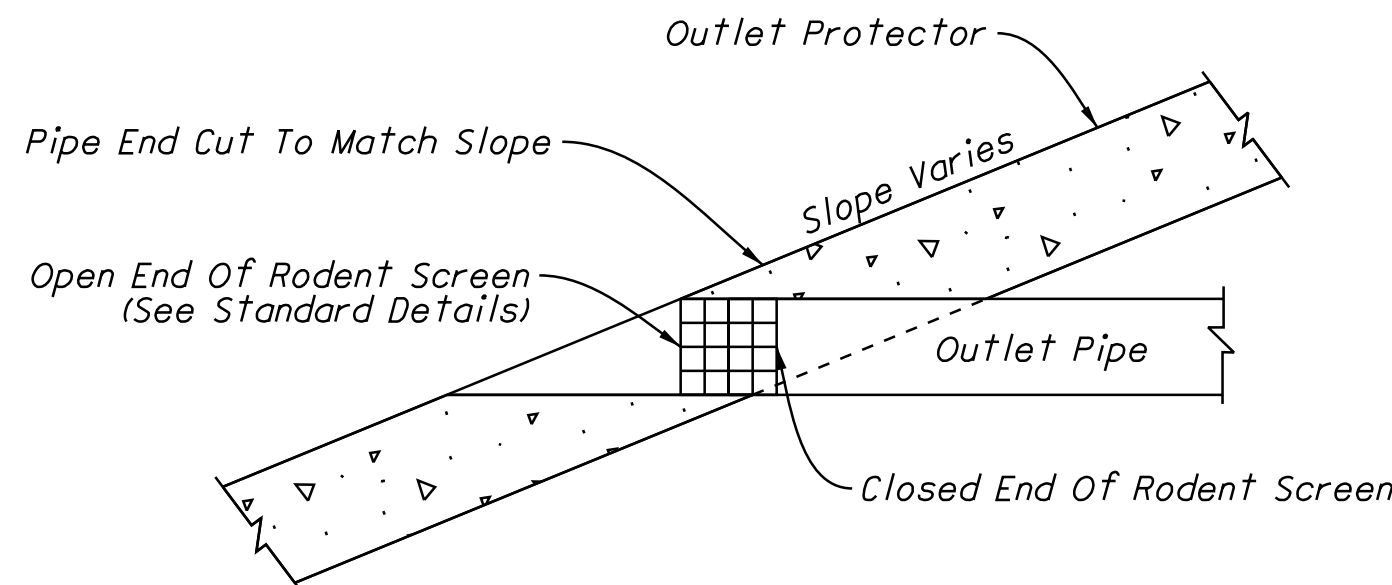
SPRINGBOX TABLE						
Feature	Station	Offset	Flow Rate (gpm)	Water Elev. (ft)	Pipe Size (in)	Length (ft)
4-1520	1465+30	45' RT.	10.00	679	12	64'
4-0085	1498+50	145' LT.	1.00	691	12	56'
4-0003	1510+40	105' LT.	1.00	701	12	104'
4-1530	1518+55	150' LT.	1.00	700	12	48'
4-1457	1522+85	35' LT.	5.00	722	12	56'
4-1458	1524+50	130' LT.	5.00	724	12	24'
4-1769	1525+55	50' LT.	N/A	733	12	38'



Springbox - Section A-A

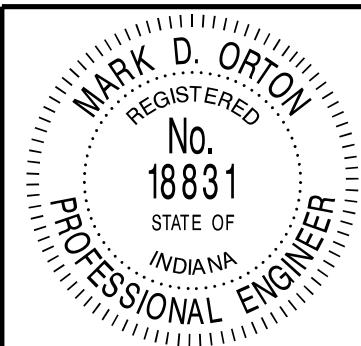
Notes

This Item may Be Precast Or Cast In Place
All Concrete To Be Class A3 If Cast In Place.
Cost Of Wire Mesh Shield At Outfall End Of Pipe Is To Be Included In Price For Pipe.



Outlet Detail

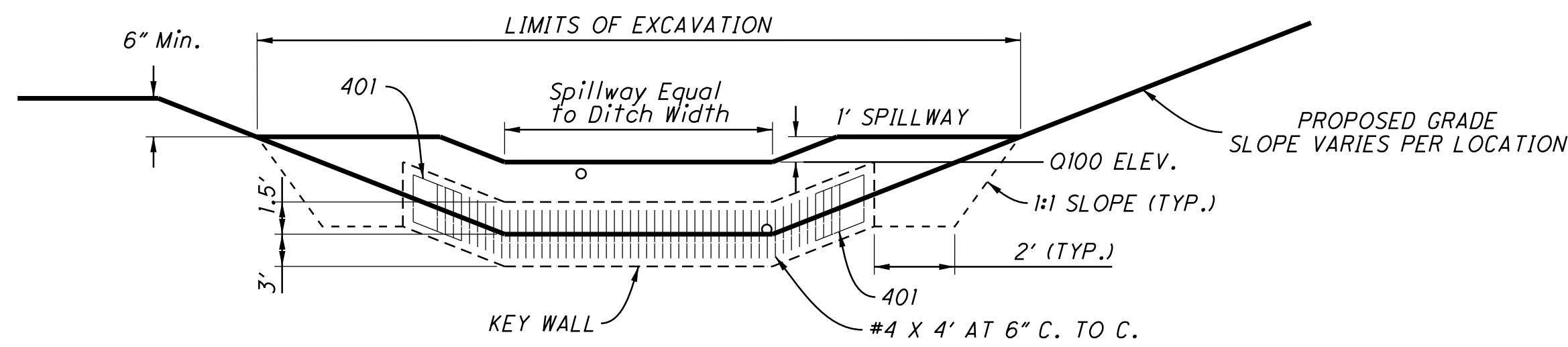
DATE: 10/1/2012
TIME: 10:42:27 AM
LOCATION: R:\03141 - 1-59 Section 4\Microstation\Sheet Files\25627500R1.MD05.AE.dgn



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: BDM	
CHECKED: HCF	CHECKED: MDO	

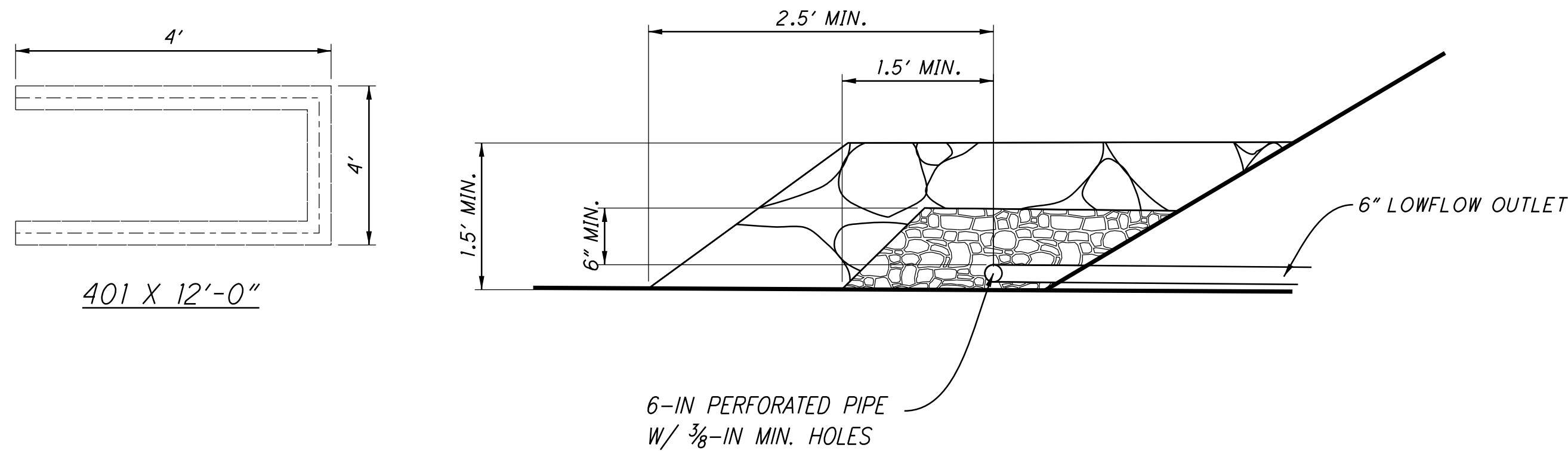
INDIANA DEPARTMENT OF TRANSPORTATION
MISCELLANEOUS DETAILS SPILL CONTAINMENT & SPRINGBOX DETAILS

HORIZONTAL SCALE N.T.S.	BRIDGE FILE N/A
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MD-05
CONTRACT IR-33742	SHEETS 103 of 173
	PROJECT 1006075

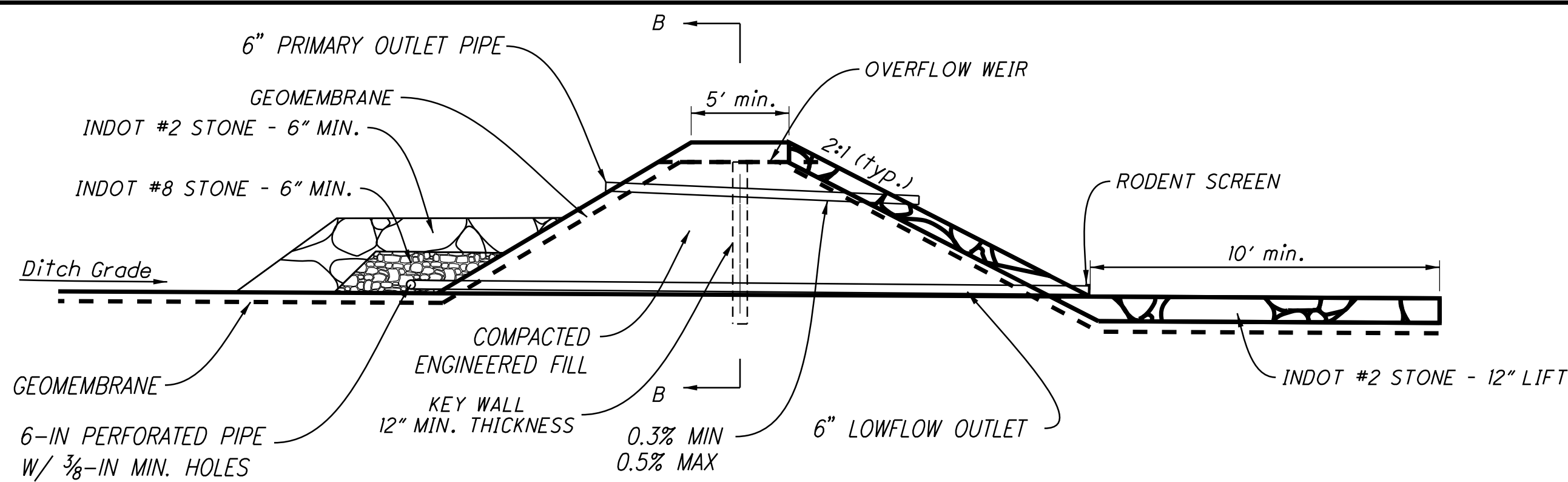


STORMWATER DETENTION BERM DETAIL
Not to Scale

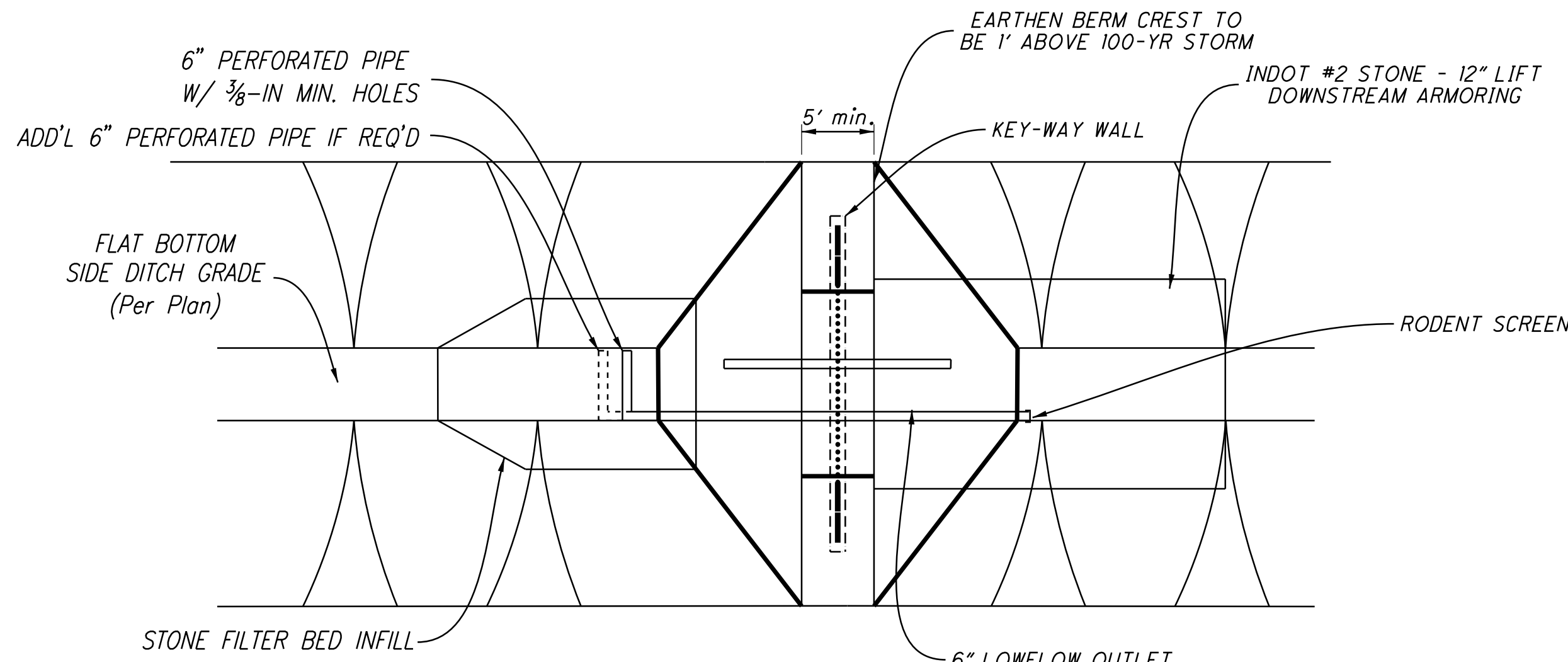
Detail B-B



Profile View (Low-Flow Pipe Inlet)
Not to Scale



Profile View
Not to Scale

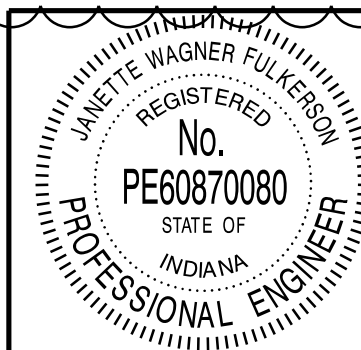


EARTHEN DRAINAGE DITCH BERM, ON GRADE PLAN VIEW
Not to Scale

STORM WATER DETENTION BASIN MANAGEMENT FACILITIES DATA TABLE									STORM WATER DETENTION BASIN MANAGEMENT FACILITIES QUANTITIES								
STRUCTURE	STATION	PERFORATED PIPE ELEV.	FLOW AREA REQ'D (SQ.IN.)	PRIMARY OUT DIA (IN.)	PRIMARY INVERT ELEV.	DITCH BOTTOM WIDTH (FT)	WEIR CREST ELEV.	STRUCTURE NOTES	No. 2 Stone (TON)	Coarse Aggregate No. 8 (CYS)	Geomembrane (SYS)	Pipe, Type 2, Circular, 12-inch (LFT)	Pipe, Type 2, Circular, 6-inch (LFT)	Pipe, Underdrain, Corr. Plastic, Perf. 6-inch (LFT)	Concrete Class B (CYS)	Fill (CYS)	Unclassified Excavation (CYS)
134B	1482+50R	642.0	1.6	6	646.0	8	649.8	BERM RT TO EL.651.3	40	2.0	220		76	1	3.0	1400	
134D	1488+00L	642.0	1.6	6	646.3	4	649.5	BERM LT TO EL.651.0	30	1.2	180		70	1	3.0	650	
975A	1501+20R	695.0	1.6	6	696.5	4	697.8		20	1.2	70		46	1	3.0	27	
975B	1501+60R	695.0	1.6	12	700.0	4	701.6		30	1.2	160	16	44	1	3.0	150	
975C	1498+00L	675.0	1.6	6	677.5	4	678.0	BERM RT TO EL. 679.5 & DITCH BLOCK(1496+00/678.2)	20	1.2	70		46	1	3.0	60	
975D	1498+40L	675.0	1.6	12	682.0	4	684.7	BERM LT TO EL. 686.2	40	1.2	260	22	56	1	3.0	575	
976A	1509+10R	703.0	1.6	6	705.5	4	706.9	BERM RT TO EL. 708.4	30	1.2	90		50	1	3.0	80	
976B	1509+50R	703.0	1.6	6	705.0	4	706.6	BERM RT TO EL. 708.1	30	1.2	90		48	1	3.0	150	
977B	1513+40R	711.0	1.6	6	712.5	4	714.5		20	1.2	80		54	1	3.0	40	
928A	1519+50R	716.0	3.2	12	718.8	4	720.6	Use Dual Primary	30	1.2	1410	36	36	2	3.0		3700
981A	1560+50L (NWR)	740.0	1.6	12	742.7	4	744.4	Use Dual Primary	40	1.2	1830	36	60	2	3.0	2300	
987A	1520+50L	704.5	3.2	12	709.0	4	711.6		30	1.2	240	20	46	1	3.0	300	
TOTAL									360	15.2	4700	130	632	14	36.0	5732	3700

STORM WATER DETENTION BERM DATA TABLE									STORM WATER DETENTION BERM QUANTITIES								
STRUCTURE	STATION	PERFORATED PIPE ELEV.	FLOW AREA REQ'D (SQ.IN.)	PRIMARY OUT DIA (IN.)	PRIMARY INVERT ELEV.	DITCH BOTTOM WIDTH (FT)	WEIR CREST ELEV.	STRUCTURE NOTES	No. 2 Stone (TON)	Coarse Aggregate No. 8 (CYS)	Geomembrane (SYS)	Pipe, Type 2, Circular, 12-inch (LFT)	Pipe, Type 2, Circular, 6-inch (LFT)	Pipe, Underdrain, Corr. Plastic, Perf. 6-inch (LFT)	Concrete Class B (CYS)	Fill (CYS)	Unclassified Excavation (CYS)
134	1476+25R	627.2	1.6	6	628.7	4	630.2		20	1.2	70		46	1	3.0	27	
134	1483+75L	639.8	1.6	6	641.3	4	642.8		20	1.2	70		46	1	3.0	27	
981	1561+12.5R (NWR)	728.1	1.6	6	729.6	4	731.1		20	1.2	70		46	1	3.0	27	
981	1562+25R (NWR)	731.2	1.6	6	732.7	4	734.2		20	1.2	70		46	1	3.0	27	
TOTAL									80	4.8	280	0	184	4	12.0	108	0

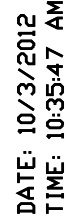
DATE: 10/1/2012
TIME: 11:19:54 AM
LOCATION: R:\03141 - 1-59 Section 4 Microstation\Sheet Files\25627500R1.MD6_A6.dgn



RECOMMENDED FOR APPROVAL	<i>Janette M. Wagner</i>	DATE	9/4/12
DESIGNED:	PXG	DRAWN:	BDM
CHECKED:	JWF	CHECKED:	JWF

INDIANA DEPARTMENT OF TRANSPORTATION DRAINAGE DITCH BERM DETAILS
--

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MD-06
CONTRACT IR-33742	SHEETS 104 of 173
	PROJECT 1006075



CURVE DATA

PI = 1522+94.22 "A"

Δ = 71° 30' 58" (LT)

R = 4,000.00'

T = 2,880.44'

L = 4,992.77'

E = 929.19'

CURVE DATA

PI = 1553+72.24 "NWR-3"

Δ = 43° 15' 51" (RT)

R = 1,330.00'

T = 527.44'

L = 1,004.28'

E = 100.77'

se = 6.6%

Design Speed = 50 mph

CURVE DATA

PI = 208+20.77 "SR 37"

Δ = 9° 09' 15" (RT)

R = 17,188.74'

T = 1,376.05'

L = 2,746.25'

E = 54.99'

se = N.C.

Design Speed = 70 mph

CURVE DATA

PI = 1525+66.33 "PR-A"

Δ = 77° 37' 50" (LT)

R = 3,800.00'

T = 3,056.95'

L = 5,148.65'

E = 1,076.98'

se = 5.2%

Design Speed = 70 mph

CURVE DATA

PI = 1553+30.60 "PR-A"

Δ = 4° 28' 54" (RT)

R = 17,188.15'

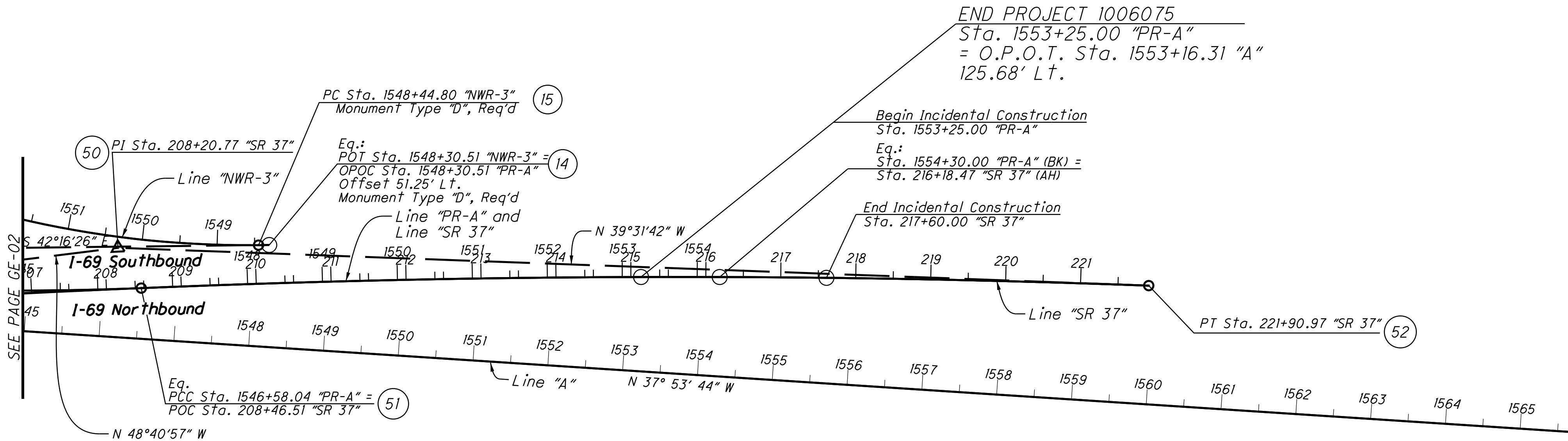
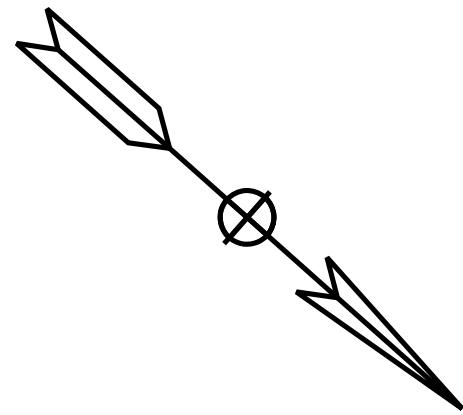
T = 672.56'

L = 1,344.43'

E = 13.15'

se = N.C.

Design Speed = 70 mph



POINT	STATION	LINE	NORTHING	EASTING
14	1548+30.51	NWR-3	511474.9216	1271668.9280
15	1548+44.8	NWR-3	511464.3496	1271678.5392
50	208+20.77	SR 37	511326.6312	1271805.8030
51	1546+58.04	PR-A	511385.5097	1271825.3528
52	221+90.97	SR 37	512387.9943	1270929.9997

DATE: 10/3/2012
TIME: 10:35:51 AM
LOCATION: N:\Projects\1006075\Drawings\1006075\Transp\Road\SR37\Detail Sheets\1006075\GE03_S9.dgn

1

9/25/12 - Updated Notes And Labels

Professional Engineer


WILLIAM J. JONES

REGISTERED

STATE OF INDIANA

No. 10810125

RECOMMENDED FOR APPROVAL



DESIGN ENGINEER

DATE 9/4/2012

DESIGNED: JB

DRAWN: KCH

CHECKED: WJW

CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION

INTERCHANGE GEOMETRIC LAYOUT

STA. 1545+00 TO STA. 1560+00 "PR-A"

HORIZONTAL SCALE
1" = 100'

VERTICAL SCALE
NONE

SURVEY BOOK
ELECTRONIC / AERIAL

CONTRACT
IR-33742

BRIDGE FILE
N/A

DESIGNATION
1006075

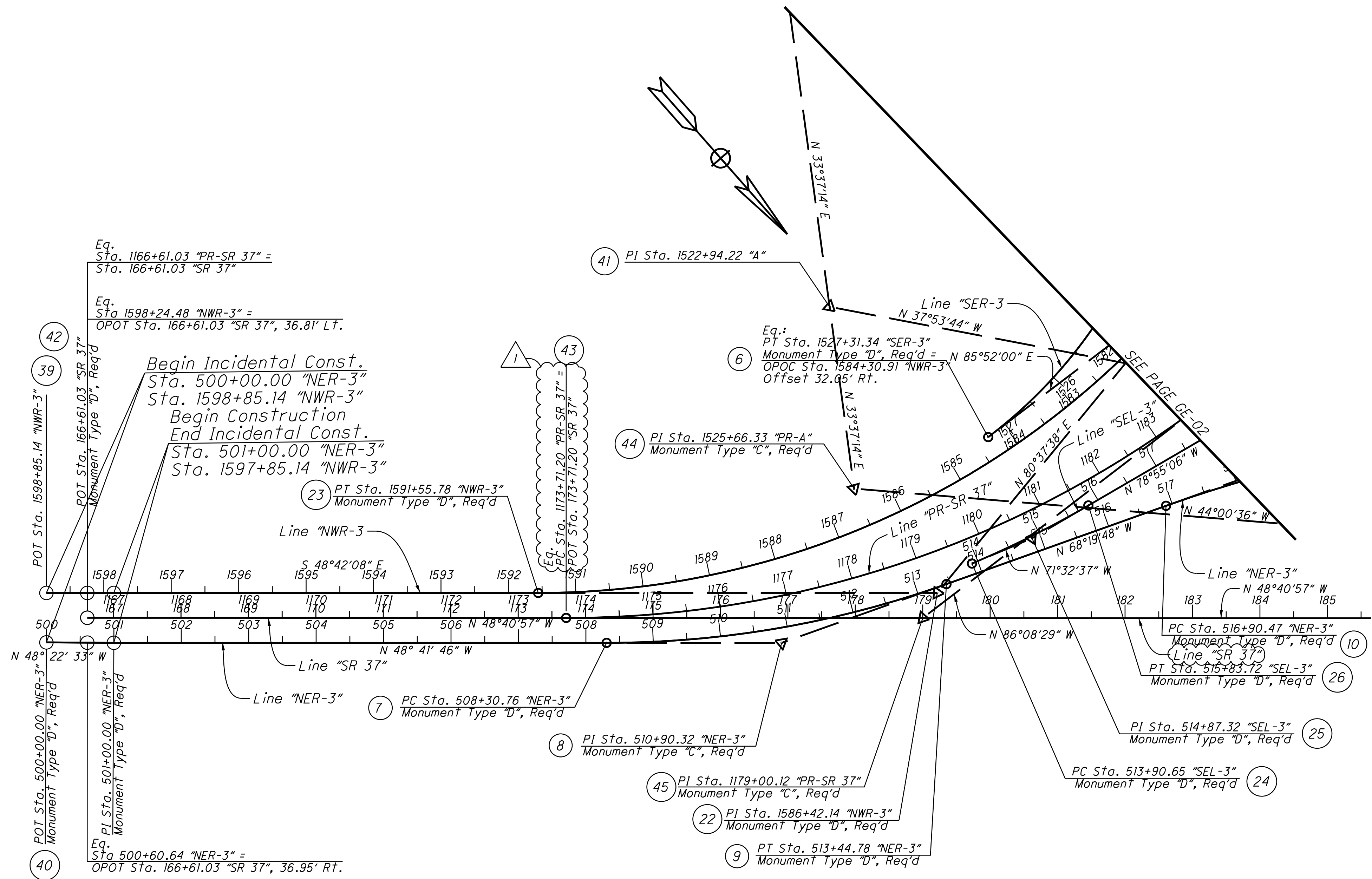
PAGE
GE-03

SHEETS
107 of 173

PROJECT
1006075

DATE: 10/3/2012
TIME: 10:35:52 AM
LOCATION: N:\Projects\25627500\Drawings\4 Detail Sheets\Geometric Details\25627500RD_GE04_S9.dgn

POINT	STATION	LINE	NORTHING	EASTING
6	1527+31.34	SER-3	509260.6946	1273749.3998
7	508+30.76	NER-3	509116.4837	1274376.0349
8	510+90.32	NER-3	509287.8036	1274181.0532
9	513+44.78	NER-3	509383.6465	1273939.8425
10	516+90.47	NER-3	509511.2932	1273618.5903
22	1586+42.14	NWR-3	509384.5018	1273958.7136
23	1591+55.78	NWR-3	508993.9208	1274403.3374
24	513+90.65	SEL-3	509385.7213	1273891.3079
25	514+87.32	SEL-3	509416.3242	1273799.6129
26	515+83.72	SEL-3	509434.9044	1273704.7484
39	1598+85.14	NWR-3	508512.5651	1274951.2962
40	500+00.	NER-3	508567.7152	1274999.7496
41	1522+94.22	A	508960.3025	1273798.6020
42	166+61.03	SR 37	508580.2432	1274930.0298
43	1173+71.2	PR SR 37	509049.1199	1274396.6466
	173+71.20	SR 37		
44	1525+66.33	PR-A	509186.8962	1273949.2678
45	1179+00.12	PR SR 37	509398.3313	1273999.3919



CURVE DATA
PI = 510+90.32 "NER-3"
Δ = 19° 38' 03" (LT)
R = 1,500.00'
T = 259.55'
L = 514.02'
E = 22.29'
se = 5.4%
Design Speed = 45 mph

CURVE DATA
PI = 523+75.16 "NER-3"
Δ = 36° 56' 18" (RT)
R = 2,050.00'
T = 684.69'
L = 1,321.62'
E = 111.32'
se = 5.4%
Design Speed = 45 mph

CURVE DATA
PI = 1586+42.14 "NWR-3"
Δ = 50° 40' 14" (RT)
R = 1,250.00'
T = 591.81'
L = 1,105.46'
E = 133.02'
se = 6.0%
Design Speed = 45 mph

CURVE DATA
PI = 1179+00.12 "PR-SR 37"
Δ = 37° 27' 32" (LT)
R = 1,560.00'
T = 528.92'
L = 1,019.90'
E = 87.23'

CURVE DATA
PI = 1523+26.60 "SER-3"
Δ = 85° 19' 58" (RT)
R = 713.00'
T = 657.16'
L = 1,061.90'
E = 256.66'
se = 6.0%
Design Speed = 35 mph

CURVE DATA
PI = 514+87.32 "SEL-3"
Δ = 7° 22' 29" (LT)
R = 1,500.00'
T = 96.67'
L = 193.07'
E = 3.11'
se = 5.4%
Design Speed = 45 mph

CURVE DATA
PI = 1525+66.33 "PR-A"
Δ = 77° 37' 50" (LT)
R = 3,800.00'
T = 3,056.95'
L = 5,148.65'
E = 1,076.98'
se = 5.2%
Design Speed = 70 mph

CURVE DATA
PI = 1522+94.22 "A"
Δ = 71° 30' 58" (LT)
R = 4,000.00'
T = 2,880.44'
L = 4,992.77'
E = 929.19'

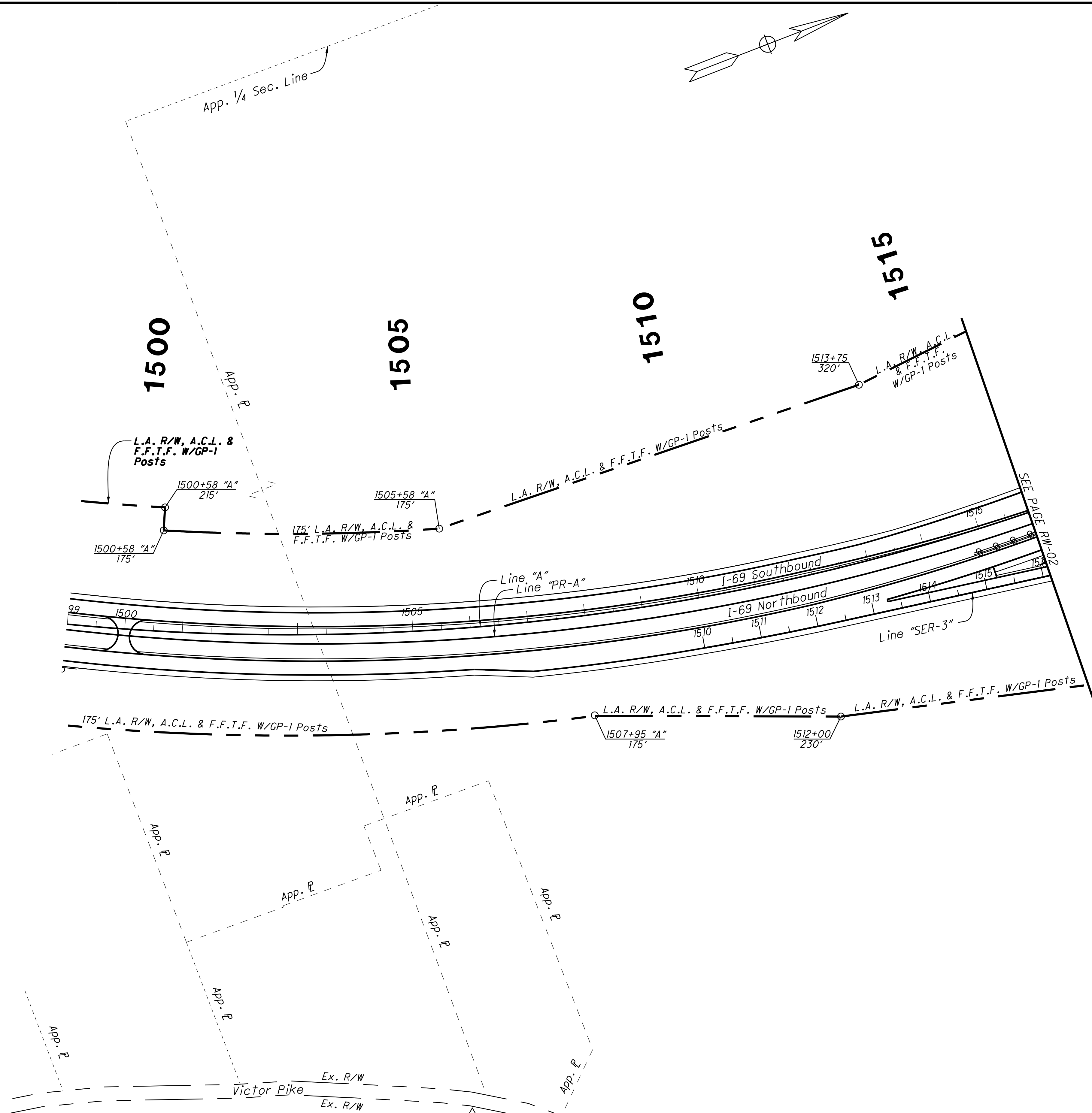


RECOMMENDED FOR APPROVAL
DESIGNED: JB
CHECKED: WJW
DRAWN: KCH
CHECKED: MDO
DATE: 9/4/2012

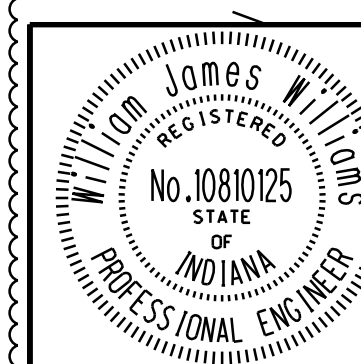
INDIANA
DEPARTMENT OF TRANSPORTATION
INTERCHANGE GEOMETRIC LAYOUT
RAMP "NER-3", "NWR-3", "SEL-3", & "SER-3"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GE-04
CONTRACT IR-33742	SHEETS 108 of 173
	PROJECT 1006075

DATE: 10/3/2012
TIME: 10:35:55 AM
LOCATION: N:\Projects\25627500\Y Transp\Road\SS9\2 Detail Sheets\F Right of Way Details\25627500RD_RWD_142.dgn



All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "PR-A" except as noted.
Limited Access provisions to apply
where indicated.

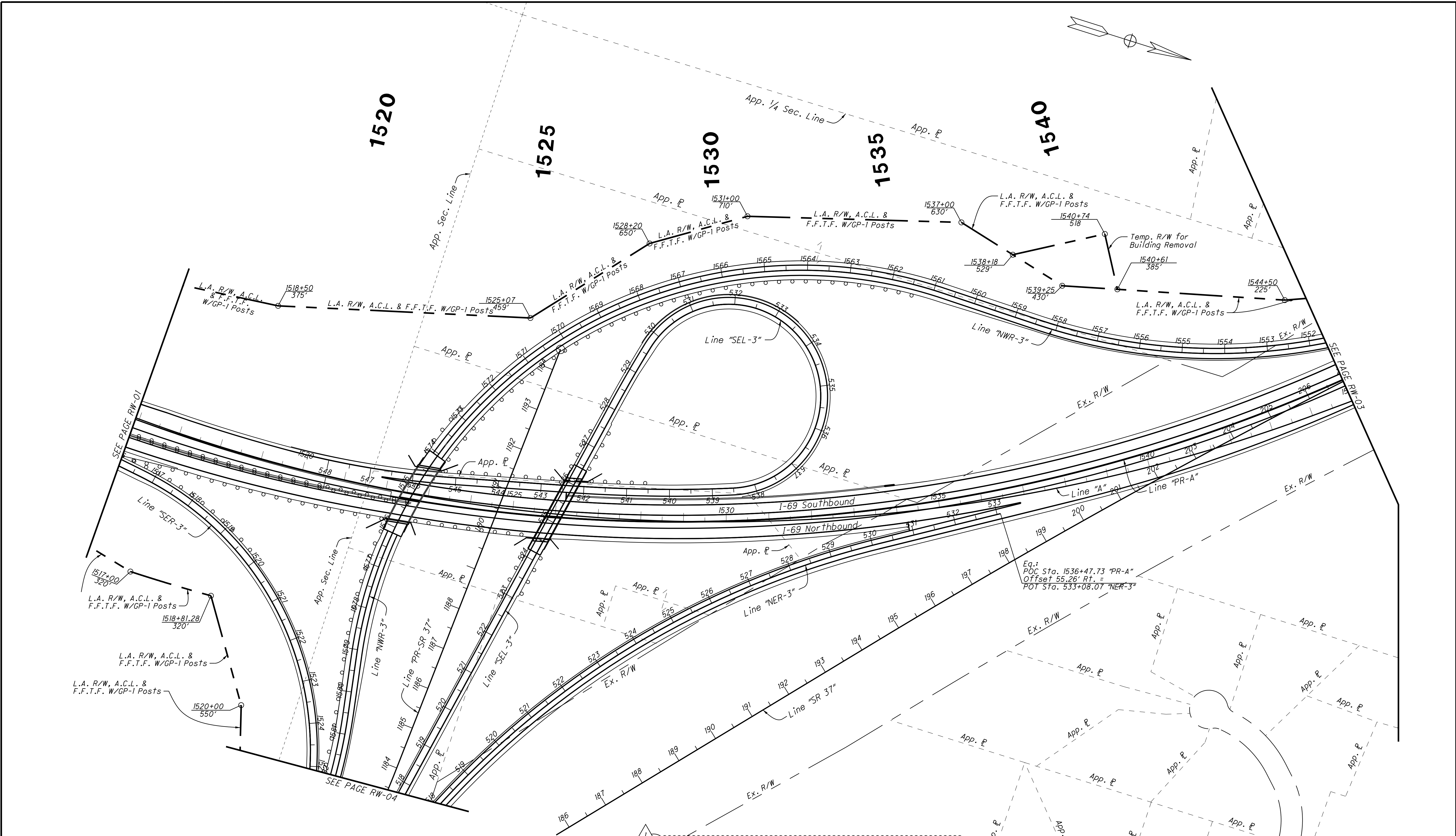


RECOMMENDED FOR APPROVAL	<i>William J. Williams</i> DESIGN ENGINEER	9/4/2012 DATE
DESIGNED: JB	DRAWN: KCH	
CHECKED: WJW	CHECKED: MDO	

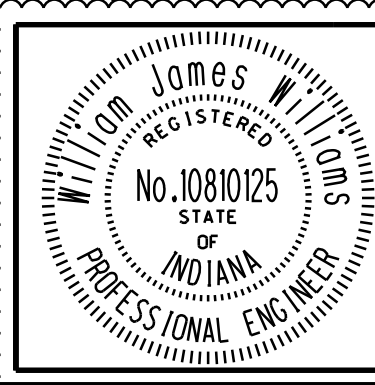
INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE R/W DETAILS STA. 1499+00 TO STA. 1516+00 "PR-A"	

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE RW-01
CONTRACT IR-33742	SHEETS 109 of 173
	PROJECT 1006075

DATE: 10/3/2012
TIME: 10:35:56 AM
LOCATION: N:\Projects\25627500\Drawings\4 Transp\Cadd\Road\SR37\Detail Sheets\F Right of Way Details\25627500RD_RW02_A2.dgn



All R/W on this sheet to be as shown.
All R/W on this sheet described from Line "PR-A" except as noted.
Limited Access provisions to apply where indicated.

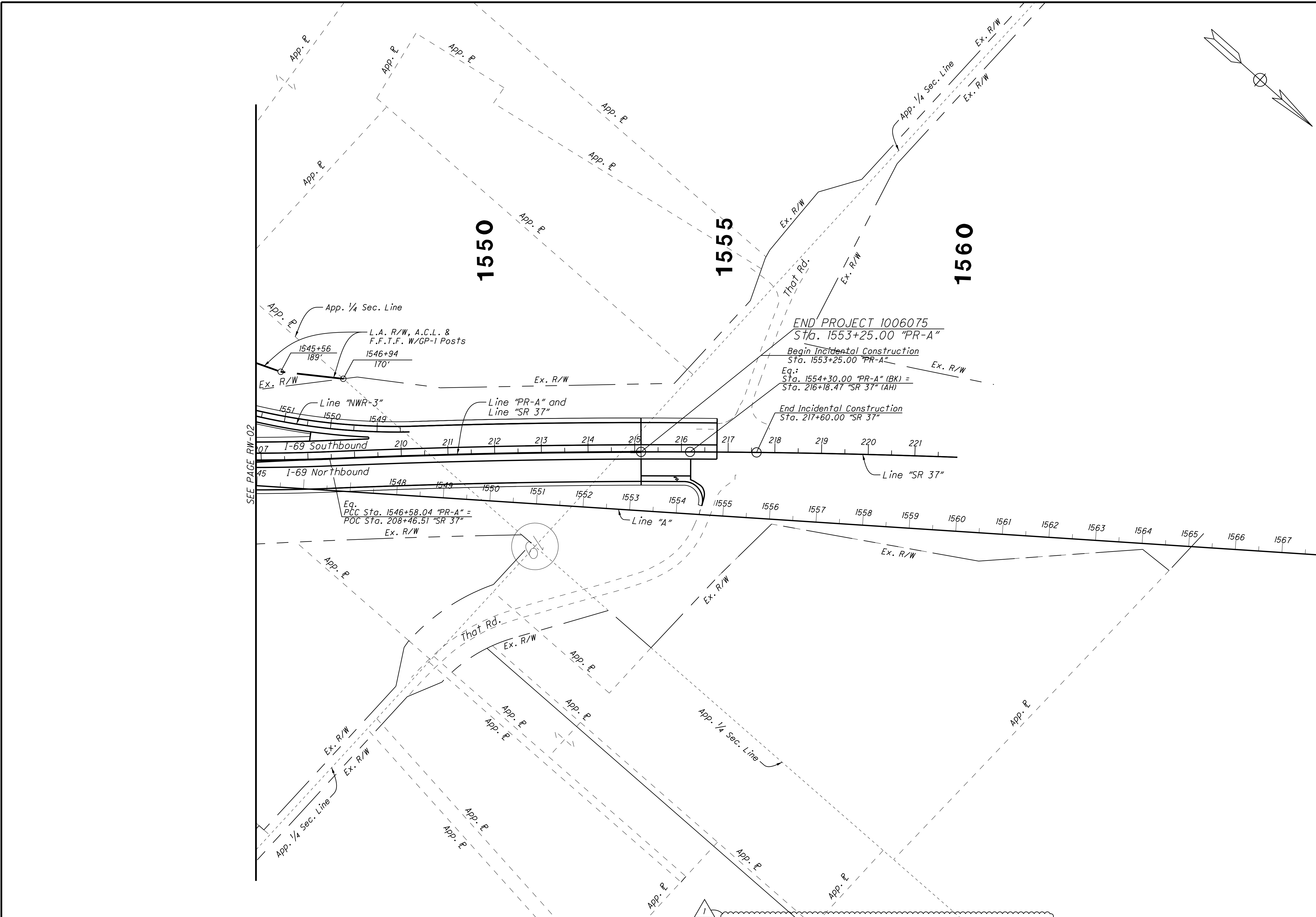


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JB		DRAWN: KCH		9/4/2012	
CHECKED: WJW		CHECKED: MDO			

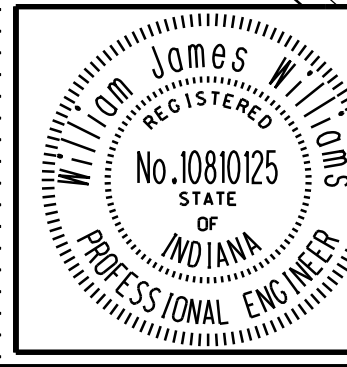
INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE R/W DETAILS	
STA. 1516+00 TO STA. 1545+00 "PR-A"	

HORIZONTAL SCALE	1" = 100'	BRIDGE FILE	N/A
VERTICAL SCALE	NONE	DESIGNATION	1006075
SURVEY BOOK	ELECTRONIC / AERIAL	PAGE	RW-02
CONTRACT	IR-33742	SHEETS	110 of 173
		PROJECT	1006075

DATE: 10/3/2012
TIME: 10:35:57 AM
LOCATION: N:\Projects\25627500\Drawings\4 Transp\CaddRoad\SR37\Detail Sheets\F Right of Way Details\25627500RD_RW03_A2.dgn



All R/W on this sheet to be as shown.
All R/W on this sheet described from Line "PR-A" except as noted.
Limited Access provisions to apply where indicated.



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JB		DRAWN: KCH			
CHECKED: WJW		CHECKED: MDO			

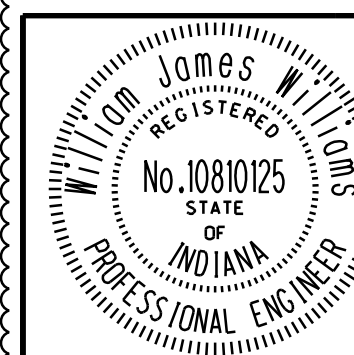
INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE R/W DETAILS STA. 1545+00 TO STA. 1560+00 "PR-A"	

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE RW-03
CONTRACT IR-33742	SHEETS III of 173
	PROJECT 1006075

DATE: 10/3/2012
TIME: 10:35:58 AM
LOCATION: N:\Projects\25627500\Drawings\4 Transp\Road\Road\SR37\Detail Sheets\F Right of Way Details\25627500RD_RW04_A2.dgn

1

All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "PR-A" except as noted.
Limited Access provisions to apply
where indicated.



RECOMMENDED
FOR APPROVAL

William J. Williams
DESIGN ENGINEER DATE 9/4/2012

DESIGNED: JB

DRAWN: KCH

CHECKED: WJW

CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

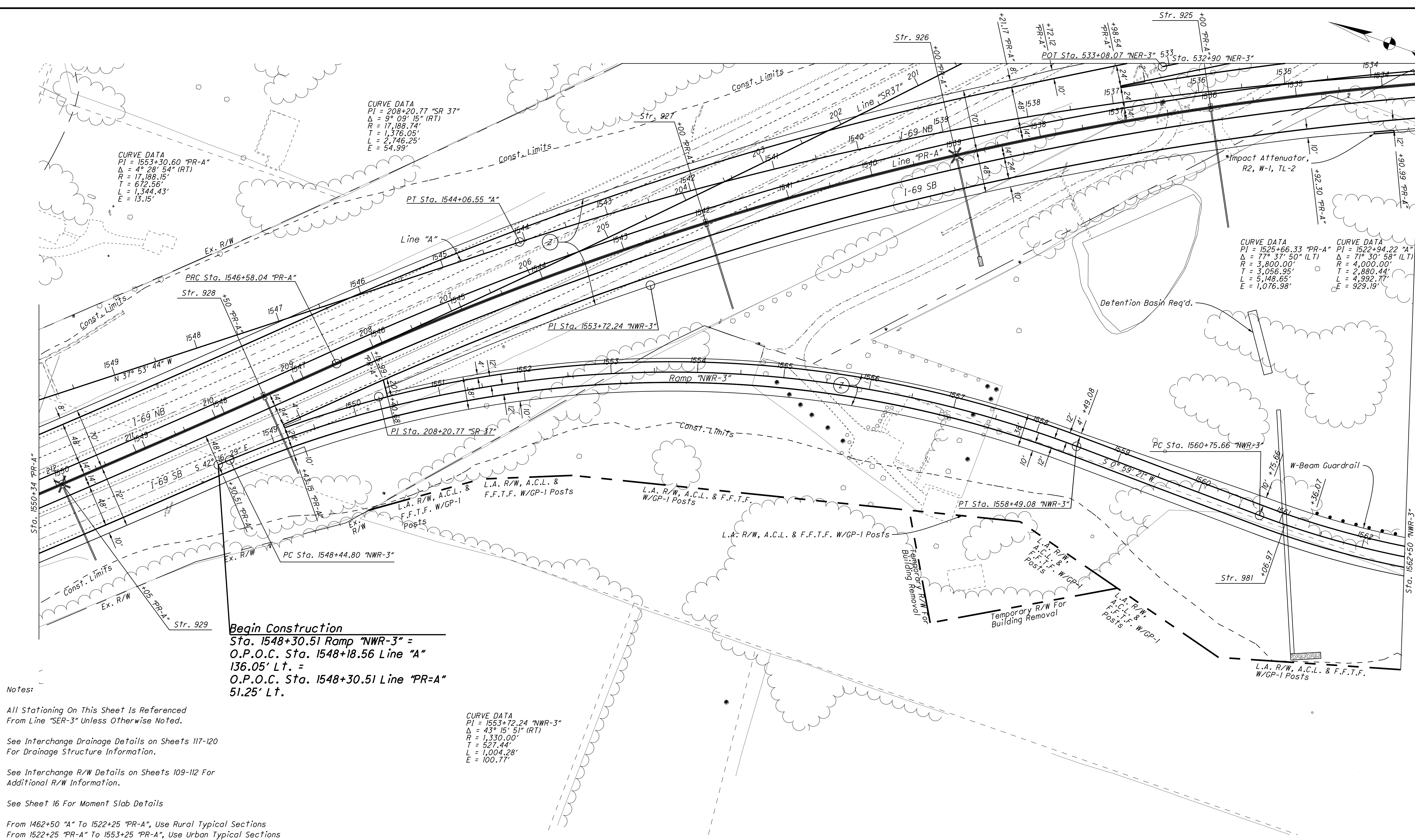
INTERCHANGE R/W DETAILS
RAMP "NER-3", "NWR-3", "SEL-3", & "SER-3"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE RW-04
CONTRACT IR-33742	SHEETS 112 of 173
	PROJECT 1006075

9/25/12 - Updated Notes And Labels

1

DATE: 10/3/2012
TIME: 10:38:00 AM
LOCATION: N-Projects\5627500\Drawings\4-Transp\Road\Road\5627500\Detail Sheets\B-Intersections\Details\5627500\I01-SR6.dgn



Begin Construction
Sta. 1548+30.51 Ramp "NWR-3" =
O.P.O.C. Sta. 1548+18.56 Line "A"
136.05' Lt. =
O.P.O.C. Sta. 1548+30.51 Line "PR=A"
51.25' Lt.

Notes:

All Stationing On This Sheet Is Referenced From Line "SR-3" Unless Otherwise Noted.

See Interchange Drainage Details on Sheets 117-120 For Drainage Structure Information.

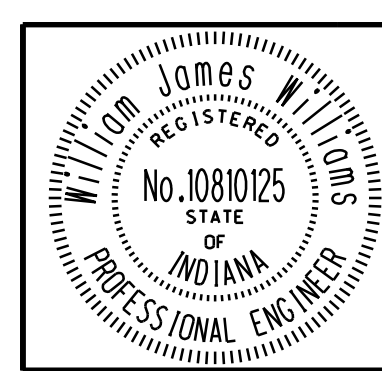
See Interchange R/W Details on Sheets 109-112 For Additional R/W Information.

See Sheet 16 For Moment Slab Details

From 1462+50 "A" To 1522+25 "PR-A", Use Rural Typical Sections
From 1522+25 "PR-A" To 1553+25 "PR-A", Use Urban Typical Sections

(Z) See Typical Sections For Construction Materials
For Drainage Structure Information See Detail Sheets 117-120

CURVE DATA
PI = 1553+72.24 "NWR-3"
Δ = 43° 15' 51" (RT)
R = 1,330.00'
T = 527.44'
L = 1,004.28'
E = 100.77'



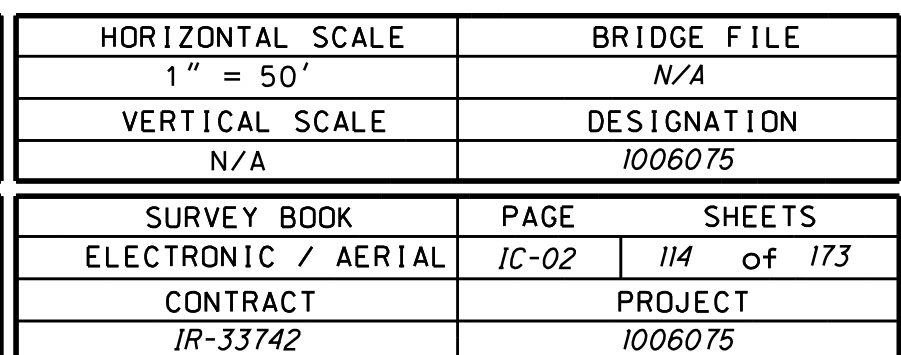
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: KCH	
CHECKED: WJW	CHECKED: MDO	

INDIANA
DEPARTMENT OF TRANSPORTATION

INTERCHANGE CONSTRUCTION DETAILS
RAMP "NWR-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL IC-01	PAGE 113 of 173
CONTRACT IR-33742	SHEETS PROJECT 1006075

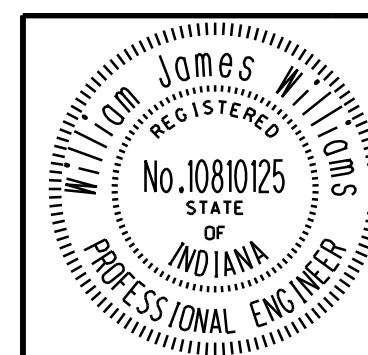
9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels



DATE: 10/3/2012
TIME: 10:36:03 AM
LOCATION: N:\Projects\15627500\Drawings\14_Transp\CaddRoad\S919_Detail_Sheets\B_Intersection_Details\15627500\1D03-S9R.dgn

1
9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels
9/25/12 - Revised Guardrail

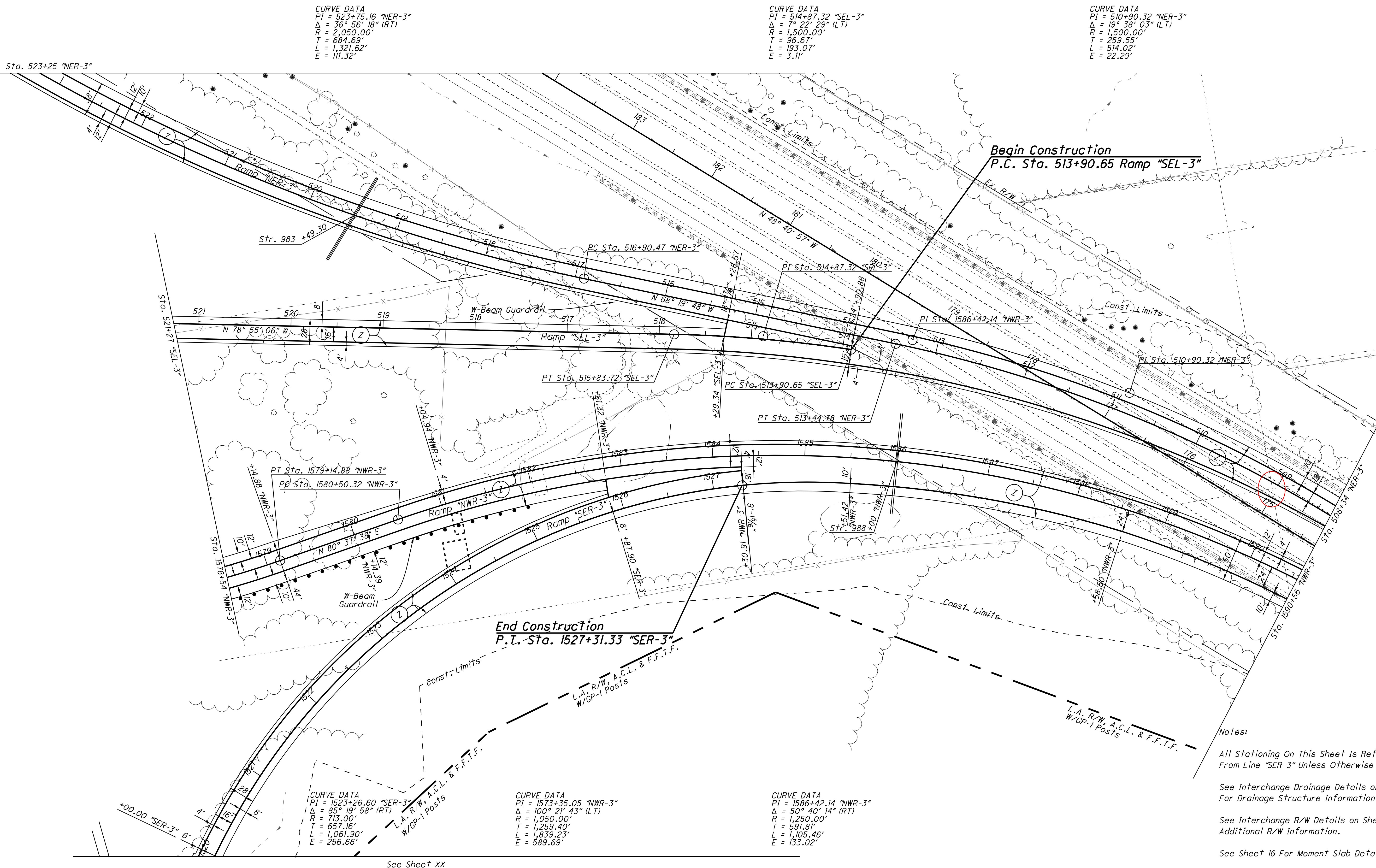
(Z) See Typical Sections For Construction Materials
For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL
DESIGNED: JB
CHECKED: WJW
DRAWN: KCH
CHECKED: MDO
DATE: 9/4/2012

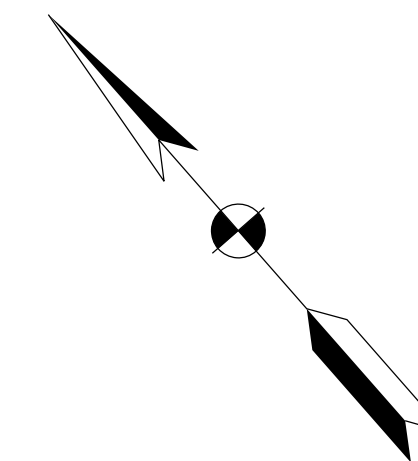
INDIANA
DEPARTMENT OF TRANSPORTATION
INTERCHANGE CONSTRUCTION DETAILS
RAMPS "NER-3" "NWR-3" "SEL-3" "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL IC-03	PAGE 115 of 173
CONTRACT IR-33742	SHEETS PROJECT 1006075



Notes:
All Stationing On This Sheet Is Referenced From Line "SER-3" Unless Otherwise Noted.
See Interchange Drainage Details on Sheets 117-120 For Drainage Structure Information.
See Interchange R/W Details on Sheets 109-112 For Additional R/W Information.
See Sheet 16 For Moment Slab Details
From 1462+50 "A" To 1522+25 "PR-A", Use Rural Typical Sections
From 1522+25 "PR-A" To 1553+25 "PR-A", Use Urban Typical Sections

CURVE DATA
 PI = 510+90.32 "NER-3"
 $\Delta = 19^\circ 38' 03"$ (LT)
 R = 1,500.00'
 T = 259.55'
 L = 514.02'
 E = 22.29'



Begin Construction
 Sta. 501+00.00 "NER-3" =
 P.O.C. Sta. 167+00.35 Line "SR 37"
 37.11 Rt.

Begin Incidental Construction
 Sta. 500+00.00 Ramp "NER-3" =
 P.O.C. Sta. 166+00.91 Line "SR 37"
 37.05 Rt.

End Incidental Construction
 Sta. 1598+85.14 Ramp "NWR-3" =
 P.O.C. Sta. 166+00.91 Line "SR 37"
 36.79 Lt.

End Construction
 Sta. 1597+85.14 "NWR-3" =
 P.O.C. Sta. 167+00.37 Line "SR 37"
 36.82 Lt.

CURVE DATA
 PI = 1586+42.14 "NWR-3"
 $\Delta = 50^\circ 40' 14"$ (RT)
 R = 1,250.00'
 T = 591.81'
 L = 1,105.46'
 E = 133.02'

Notes:

All Stationing On This Sheet Is Referenced
 From Line "SER-3" Unless Otherwise Noted.

See Interchange Drainage Details on Sheets 117-120
 For Drainage Structure Information.

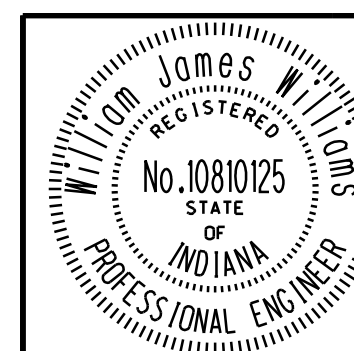
See Interchange R/W Details on Sheets 109-112 For
 Additional R/W Information.

See Sheet 16 For Moment Slab Details

From 1462+50 "A" To 1522+25 "PR-A", Use Rural Typical Sections
 From 1522+25 "PR-A" To 1553+25 "PR-A", Use Urban Typical Sections

(Z) See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	
DESIGNED: JB	DRAWN: KCH
CHECKED: WJW	CHECKED: MDO

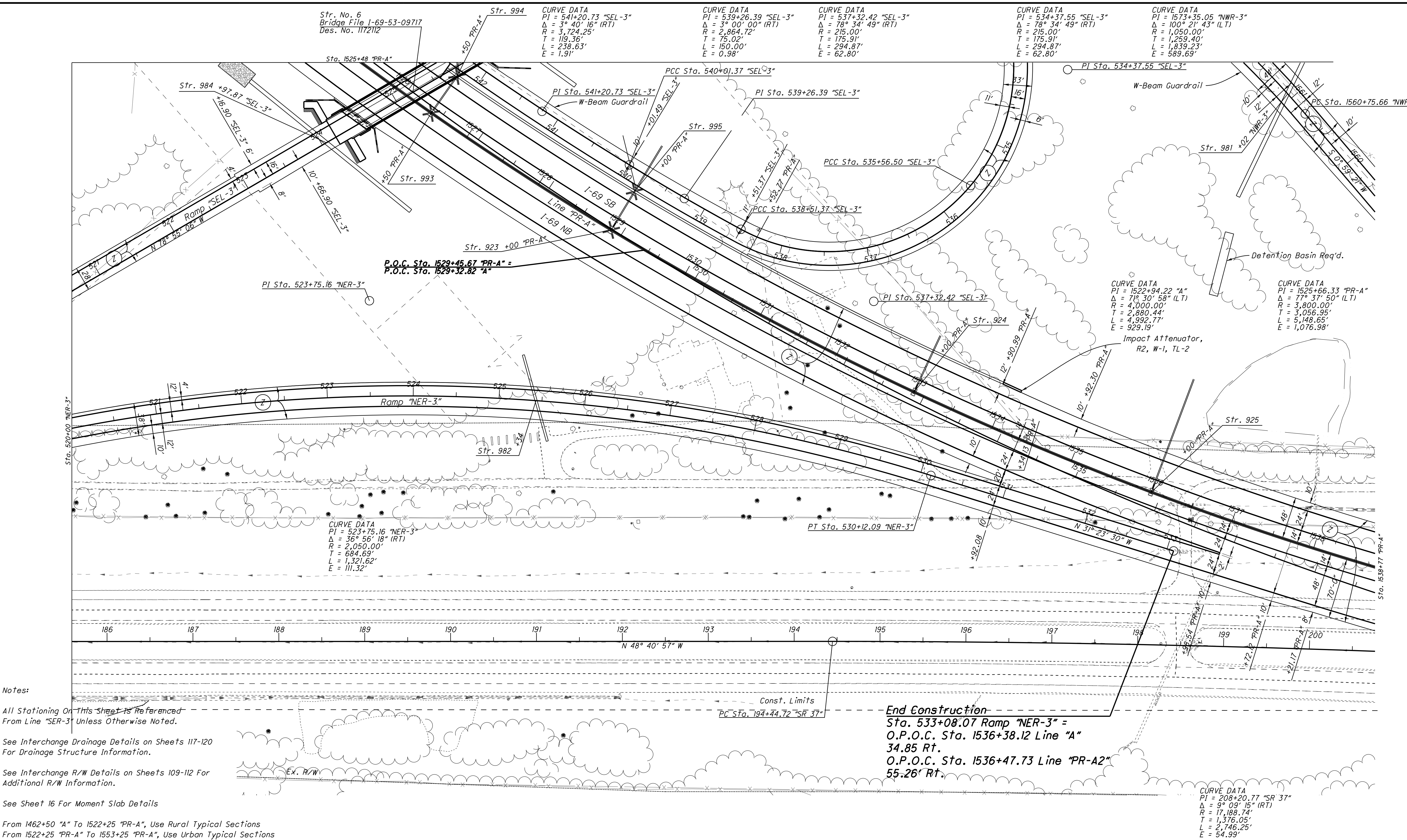
INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE CONSTRUCTION DETAILS RAMPS "NER-3" "NWR-3"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL IC-04	PAGE 116 of 173
CONTRACT IR-33742	PROJECT 1006075

DATE: 10/23/2012
 TIME: 10:36:04 AM
 LOCATION: N:\Projects\25627500\Y Drawings\14 Transp\Cadd\Road\SR37\Detail Sheets\B Interchange Details\25627500\DD04-SR6.dgn

1

DATE: 10/23/2012
TIME: 10:36:05 AM
LOCATION: N-Projects\5627500\Y Drawings\4. Transp\Road\Road\SR37\Detail Sheets\B. Intersections\Details\5627500\DD05-SR37.dgn



1

CURVE DATA
PI = 1525+66.33 "PR-A"
Δ = 77° 37' 50" (LT)
R = 3,800.00'
T = 3,056.95'
L = 5,148.65'
E = 1,076.98'

CURVE DATA
PI = 1522+94.22 "A"
Δ = 71° 30' 58" (LT)
R = 4,000.00'
T = 2,880.44'
L = 4,932.77'
E = 929.19'

CURVE DATA
PI = 547+02.37 "SEL-3"
Δ = 10° 50' 51" (RT)
R = 2,027.04'
T = 192.46'
L = 383.77'
E = 9.12'

CURVE DATA
PI = 1523+26.60 "SER-3"
Δ = 85° 19' 58" (RT)
R = 713.00'
T = 657.16'
L = 1,061.90'
E = 256.66'

CURVE DATA
PI = 1511+18.54 "SER-3"
Δ = 2° 43' 53" (LT)
R = 5,001.17'
T = 119.23'
L = 238.42'
E = 1.42'

Begin Construction
Sta. 1511+52.65 "SER-3" =
O.P.O.C. Sta. 1511+65.67 Line "A"
89.73 "A" Rt.
O.P.O.C. Sta. 1511+75.00 Line "PR-A2"
67.70' Rt.

Notes:

All Stationing On This Sheet Is Referenced
From Line "SER-3" Unless Otherwise Noted.

See Interchange Drainage Details on Sheets 117-120
For Drainage Structure Information.

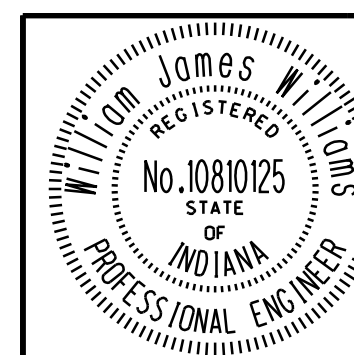
See Interchange R/W Details on Sheets 109-112 For
Additional R/W Information.

See Sheet 16 For Moment Slab Details

From 1462+50 "A" To 1522+25 "PR-A", Use Rural Typical Sections
From 1522+25 "PR-A" To 1553+25 "PR-A", Use Urban Typical Sections

(Z) See Typical Sections For Construction Materials

For Drainage Structure Information See Detail Sheets 117-120



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED:	JB	DRAWN:
CHECKED:	WJW	CHECKED:

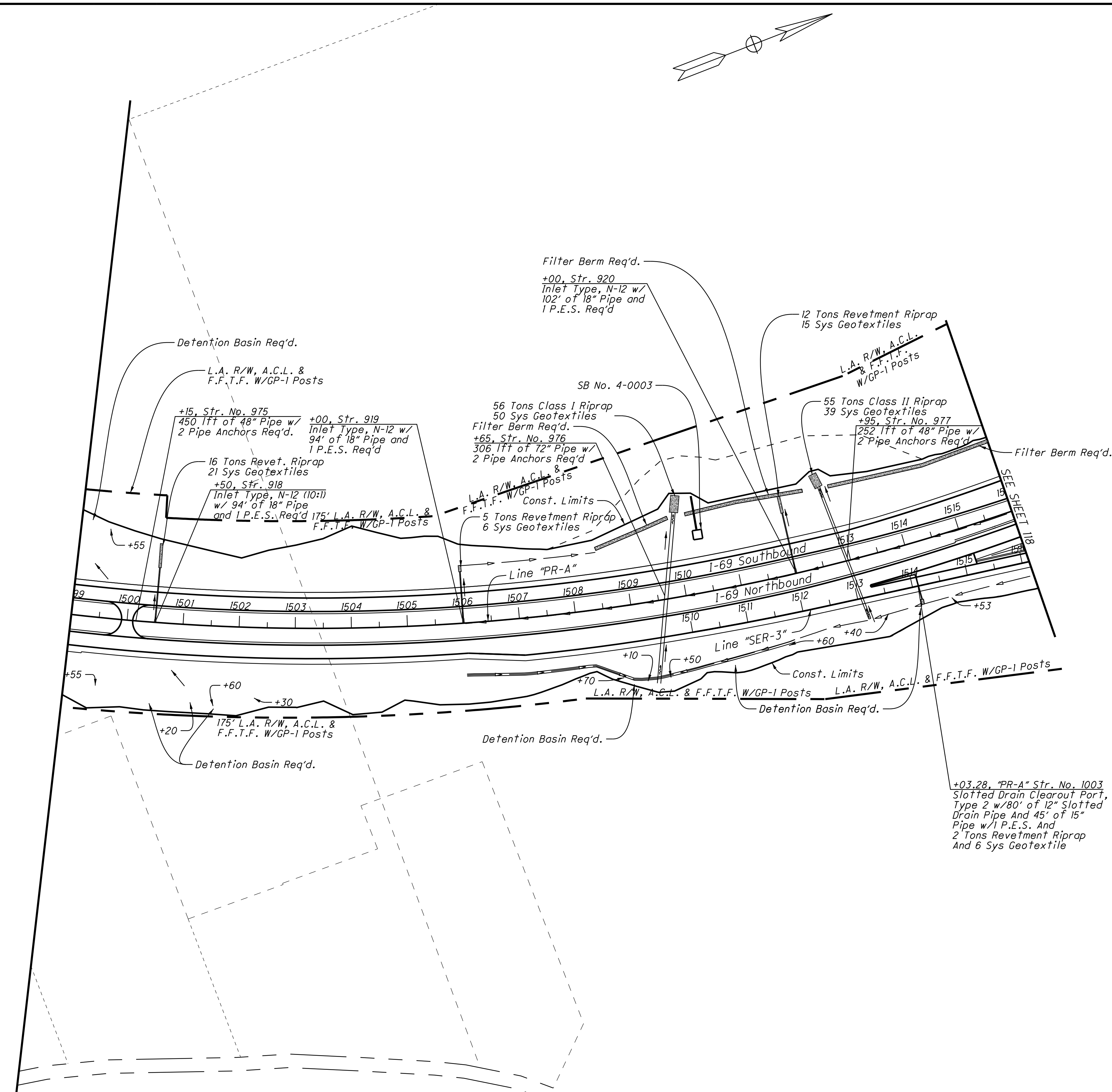
INDIANA DEPARTMENT OF TRANSPORTATION
INTERCHANGE CONSTRUCTION DETAILS RAMP "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 116-2 of 173
CONTRACT IR-33742	SHEETS PROJECT 1006075

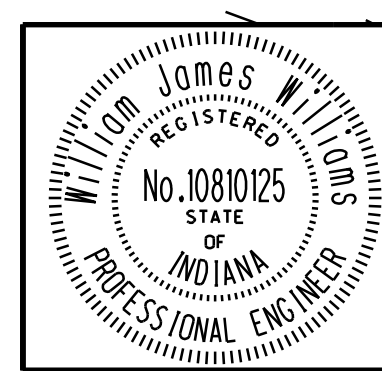
DATE: 10/23/2012
TIME: 10:36:07 AM
LOCATION: N:\Projects\15627500\Drawings\16\Transp\Cadd\Road\SP19\Detail Sheets\B\Interchange Details\15627500\1006-S9R.dgn

9/25/12 - Revised Ditches and Drainage
9/25/12 - Updated Notes And Labels

DATE: 10/3/2012
FILE: X:\3009\A\PROJECTS\15627500\Drawings\14\Transp\Road\Sheet\15627500.DWG
LOCATION: N-Project\15627500\Drawings\14\Transp\Road\Sheet\15627500.DWG



For Riprap at Structure Outlet Details, Filter Berm Details, Spring Box Details, and Detention Basin Details see Sheets 101 - 104.
For geometric information, see Interchange Geometric Layout on Sheets 105 - 108.
For R/W information, see Interchange R/W Details on Sheets 109 - 112.
For additional information, see Interchange Construction Details on Sheets 113 - 116-2.

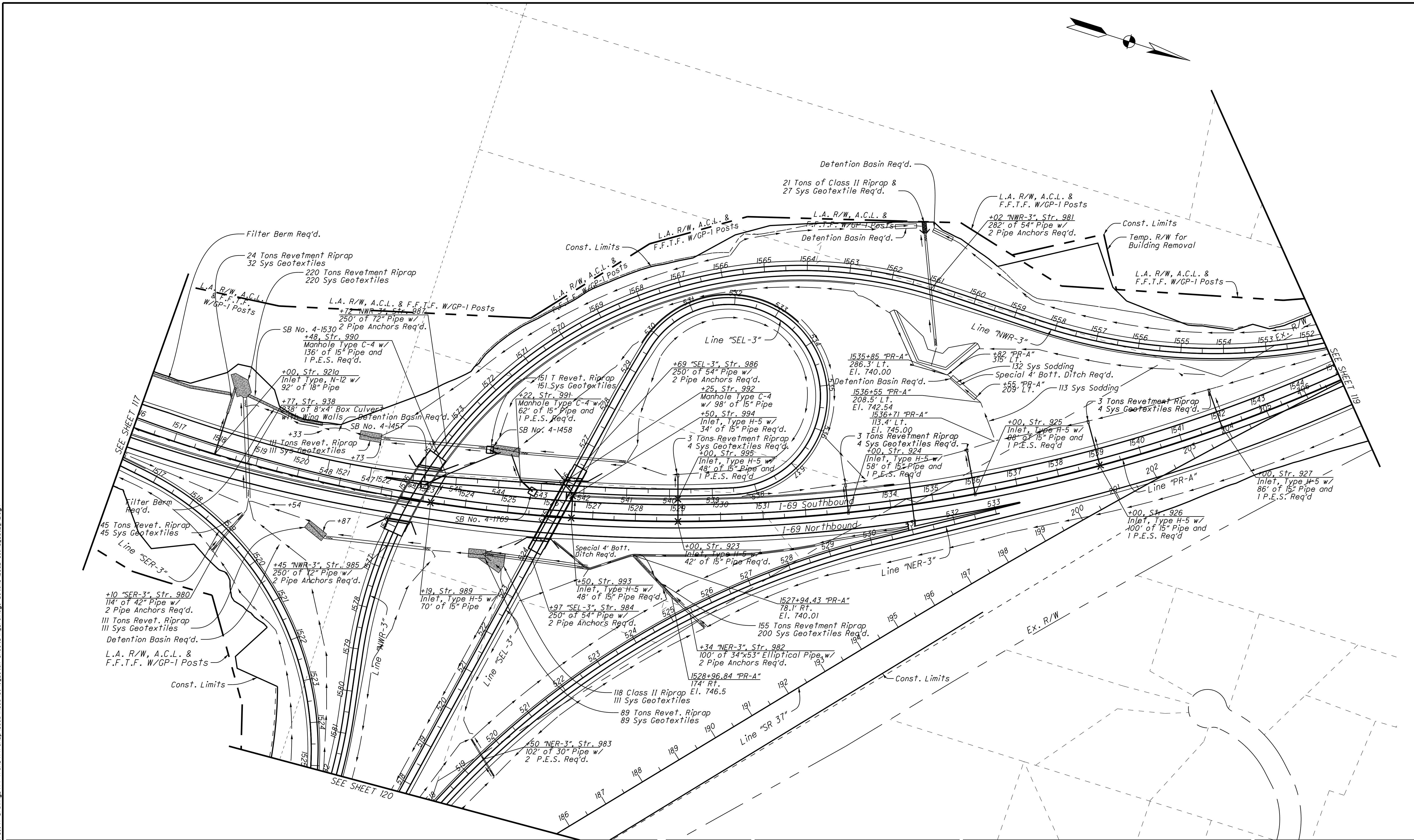


RECOMMENDED FOR APPROVAL	<i>William J. Jones</i>	9/4/2012	
DESIGNED:	JB	DRAWN:	KCH
CHECKED:	WJW	CHECKED:	MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE DRAINAGE DETAILS STA. 1499+00 TO STA. 1516+00 "PR-A"	

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE DD-01
CONTRACT IR-33742	SHEETS 117 of 173
	PROJECT 1006075

DATE: 10/3/2012
FILE: N036307.dwg
LOCATION: N-Projects\25627500\Y Drawings\4 Transp\Road\Road\SP\2 Detail Sheets\4 Drainage Details\25627500RD_D002.dwg

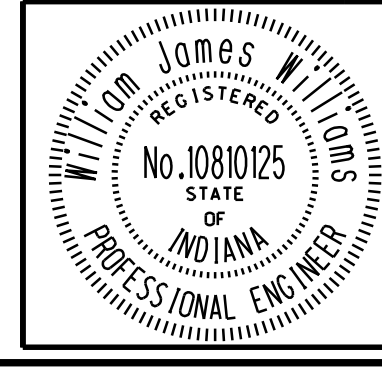


For Riprap at Structure Outlet Details, Filter Berm Details, Spring Box Details, and Detention Basin Details see Sheets 101 - 104.

For geometric information, see Interchange Geometric Layout on Sheets 105 - 108.

For R/W information, see Interchange R/W Details on Sheets 109 - 112.

For additional information, see Interchange Construction Details on Sheets 113 - 116-2.



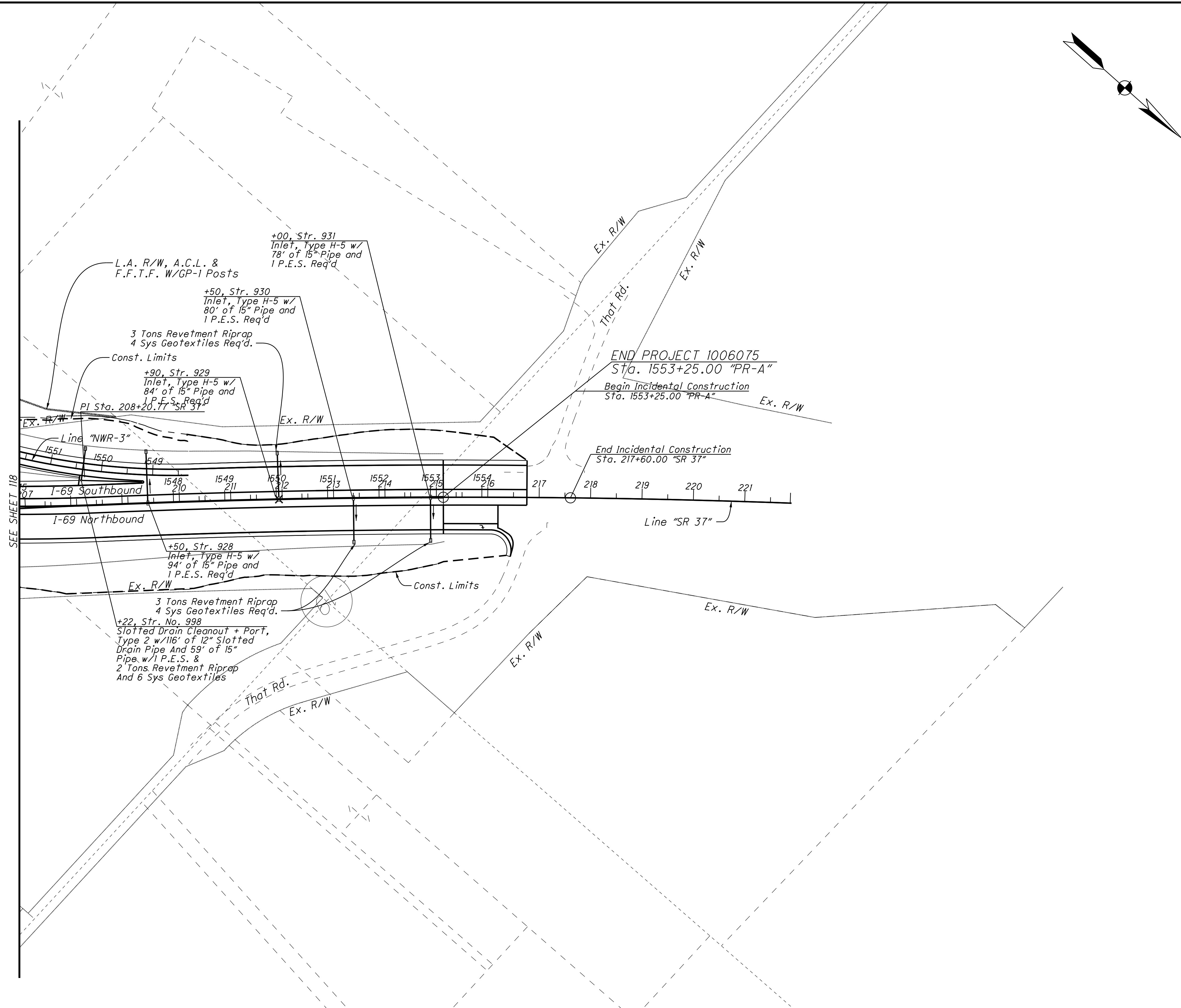
RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED:	JB	DRAWN: KCH
CHECKED:	WJW	CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

INTERCHANGE DRAINAGE DETAILS
STA. 1516+00 TO STA. 1545+00 "PR-A"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE DD-02
CONTRACT IR-33742	SHEETS 118 of 173
	PROJECT 1006075

1

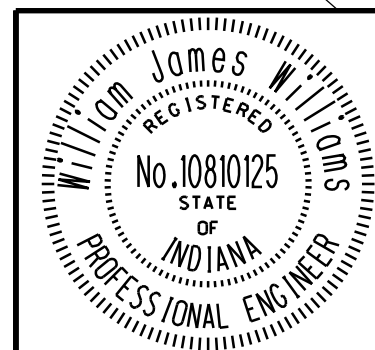


For Riprap at Structure Outlet Details, Filter Berm Details, Spring Box Details, and Detention Basin Details see Sheets 101 - 104.

For geometric information, see Interchange Geometric Layout on Sheets 105 - 108.

For R/W information, see Interchange R/W Details on Sheets 109 - 112.

For additional information, see Interchange Construction Details on Sheets 113 - 116-2.



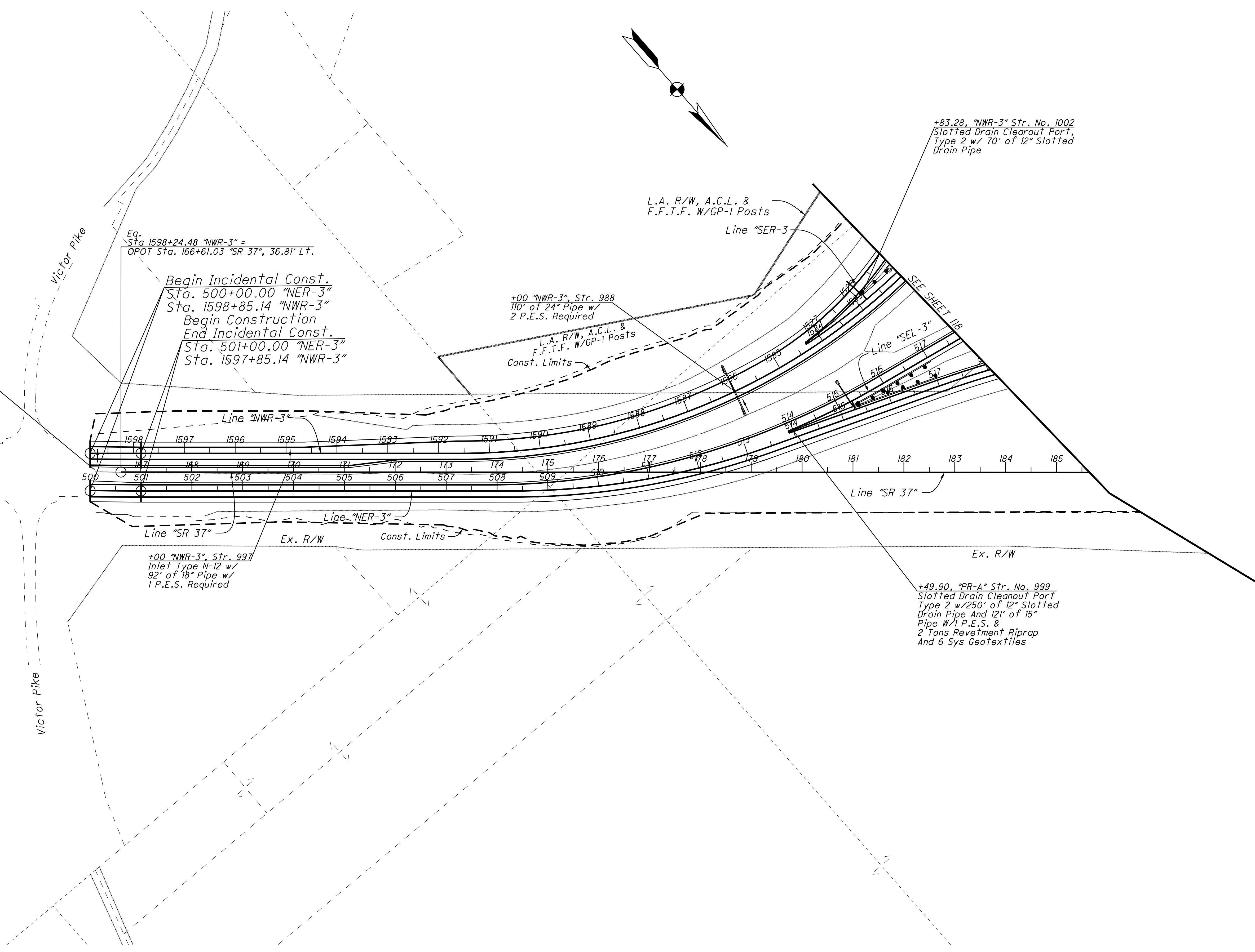
RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: KCH	DATE
CHECKED: WJW	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
INTERCHANGE DRAINAGE DETAILS STA. 1545+00 TO STA. 1560+00 "PR-A"

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE DD-03
CONTRACT IR-33742	SHEETS 119 of 173
	PROJECT 1006075

DATE: 10/3/2012
TIME: 10:36:12 AM
LOCATION: N:\Projects\25627500\Y Drawings\4 Transp\Cadd\Road\SR37 Detail Sheets\H Drainage Details\25627500RD_DD03_A2.dgn

DATE: 10/3/2012
TIME: 10:36:13 AM
LOCATION: N. P. Projects\6262506\Drawings\12\Transp\Cadd\Road\SR37\Detail\Sheets\12\Drainage\Details\1006075.dgn

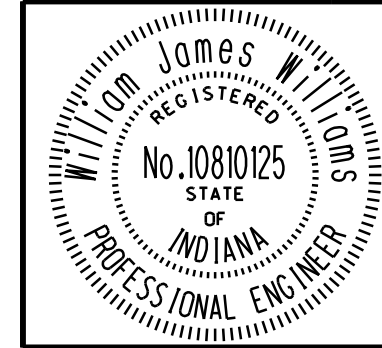


For Riprap at Structure Outlet Details, Filter Berm Details, Spring Box Details, and Detention Basin Details see Sheets 101 - 104.

For geometric information, see Interchange Geometric Layout on Sheets 105 - 108.

For R/W information, see Interchange R/W Details on Sheets 109 - 112.

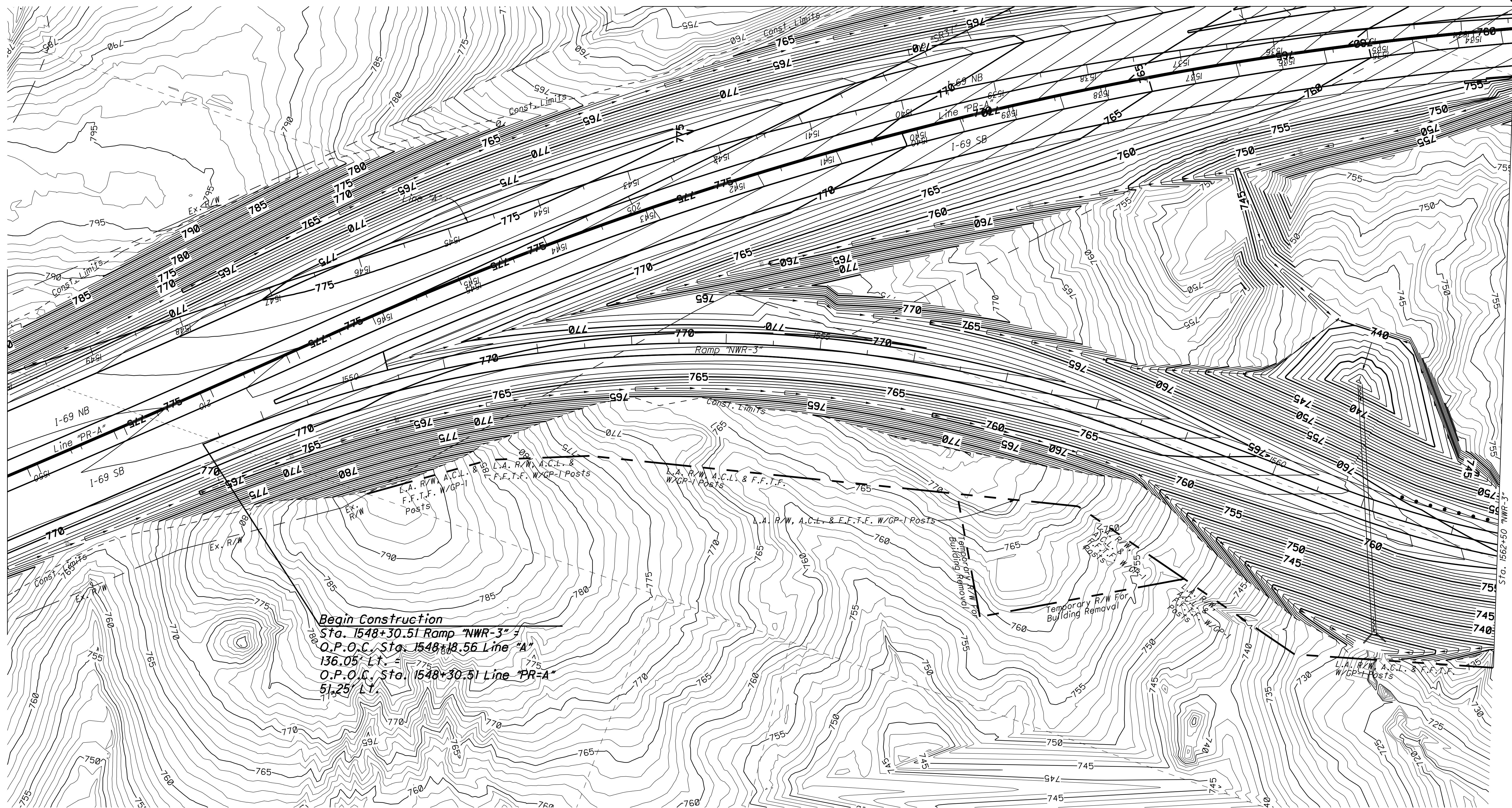
For additional information, see Interchange Construction Details on Sheets 113 - 116-2.



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012	
DESIGNED:	JB	DRAWN:	KCH
CHECKED:	WJW	CHECKED:	MDO

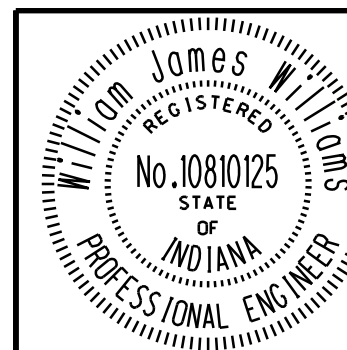
INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE DRAINAGE DETAILS RAMP "NER-3", "NWR-3", "SEL-3", & "SER-3"	

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE DD-04
CONTRACT IR-33742	SHEETS 120 of 173
	PROJECT 1006075



Begin Construction
Sta. 1548+30.51 Ramp "NWR-3"
O.P.O.C. Sta. 1548+18.56 Line "A"
136.05' LT.
O.P.O.C. Sta. 1548+30.51 Line "PR-A"
51.25' LT.

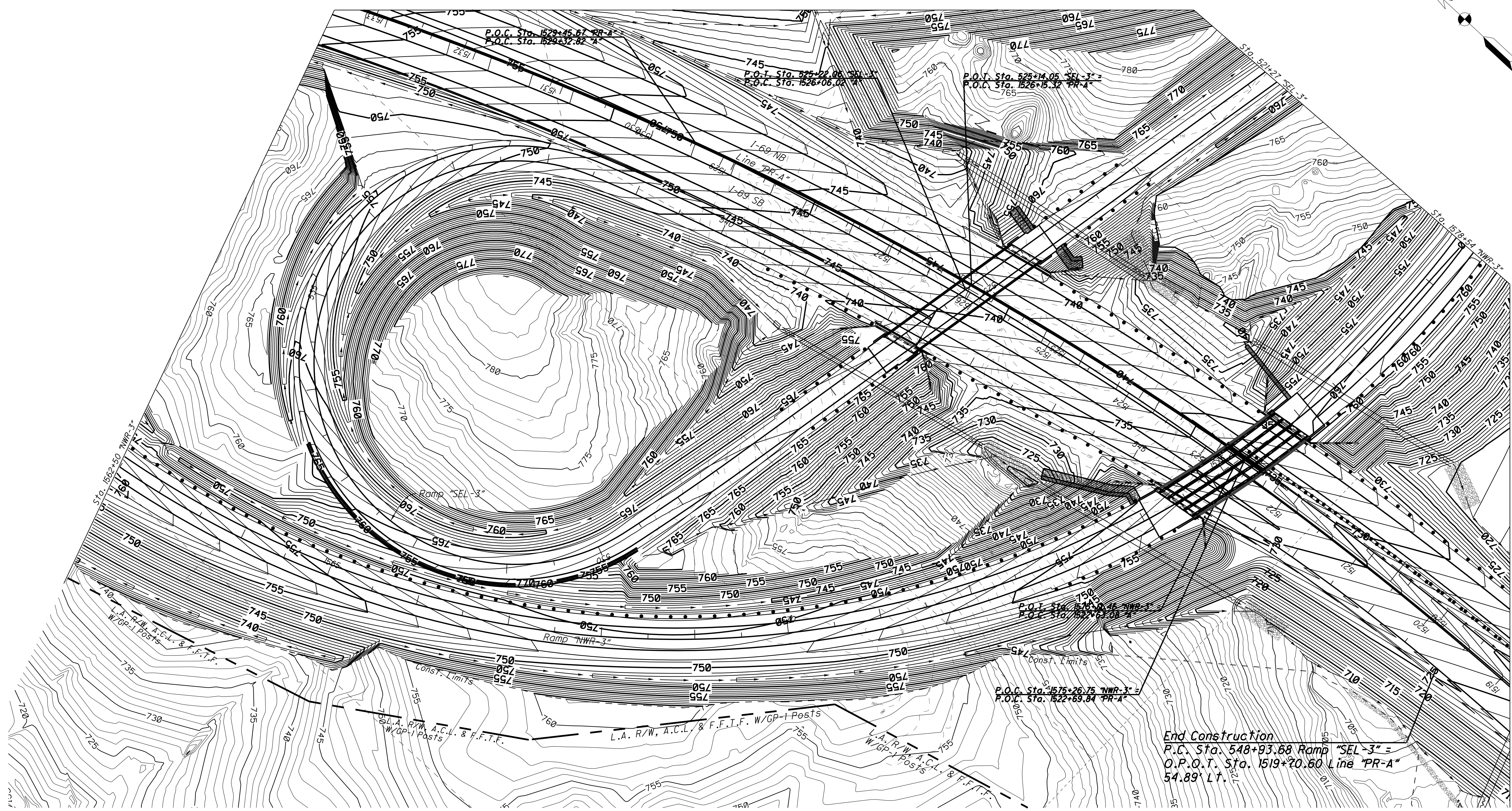
DATE: 10/3/2012
FILE: N0363187.MXD
LOCATION: N:\Projects\25627500\Y Drawings\4 Transp\Cadd\Road\SP19 Detail Sheets\G Grading Plans\25627500\G01-SPR.dgn



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i> DESIGN ENGINEER	9/4/2012 DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
INTERCHANGE GRADING DETAILS RAMP "NWR-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 10-01
CONTRACT IR-33742	SHEETS 121 of 173
	PROJECT 1006075



End Construction
P.C. Sta. 548+93.68 Ramp "SEL-3" =
O.P.O.T. Sta. 1519+20.60 Line "PR-A"
54.89' Lt.

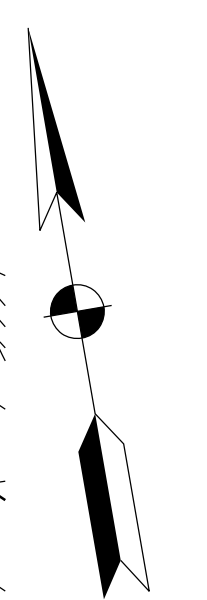
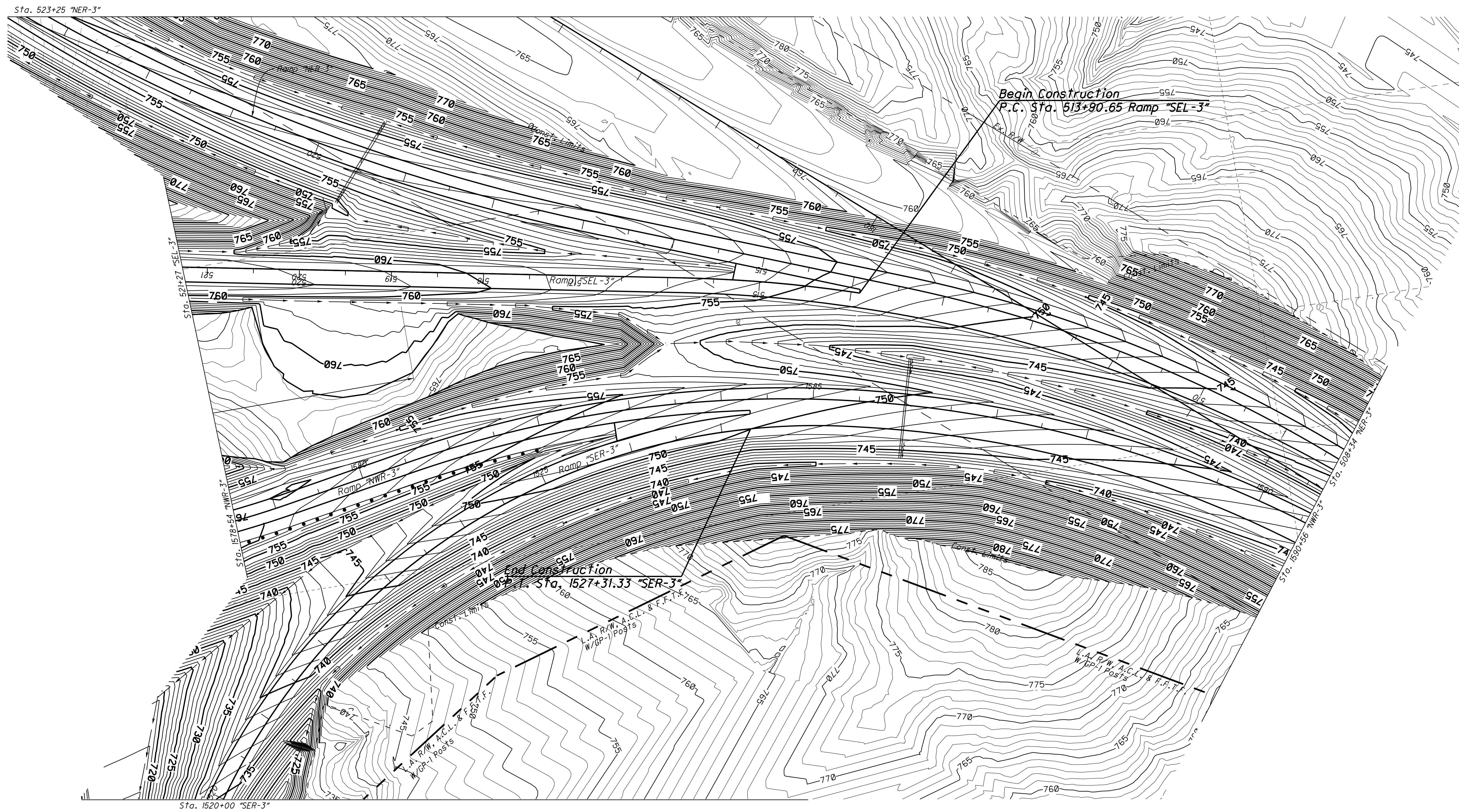
DATE: 10/3/2012
FILE: 103620.dwg
LOCATION: N-Projects\25627500\Y Drawings\4 Transp\Cadd\Road\59\9 Detail Sheets\G Grading Plans\25627500\IG06-599.dgn



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JB		DRAWN: ETD		9/4/2012	
CHECKED: RT		CHECKED: WJW			

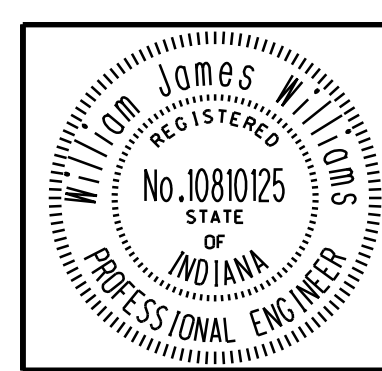
INDIANA
DEPARTMENT OF TRANSPORTATION
INTERCHANGE GRADING DETAILS
RAMPS "NWR-3" "SEL-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE IG-02
CONTRACT IR-33742	SHEETS 122 of 173
	PROJECT 1006075



DATE: 10/3/2012
FILE: N:\3620\NRY
LOCATION: N:\Projects\25627500\Y Drawings\4 Transp\Cadd\Road\SR9\ Detail Sheets\G Grading Plans\25627500\G03-SR9.dgn

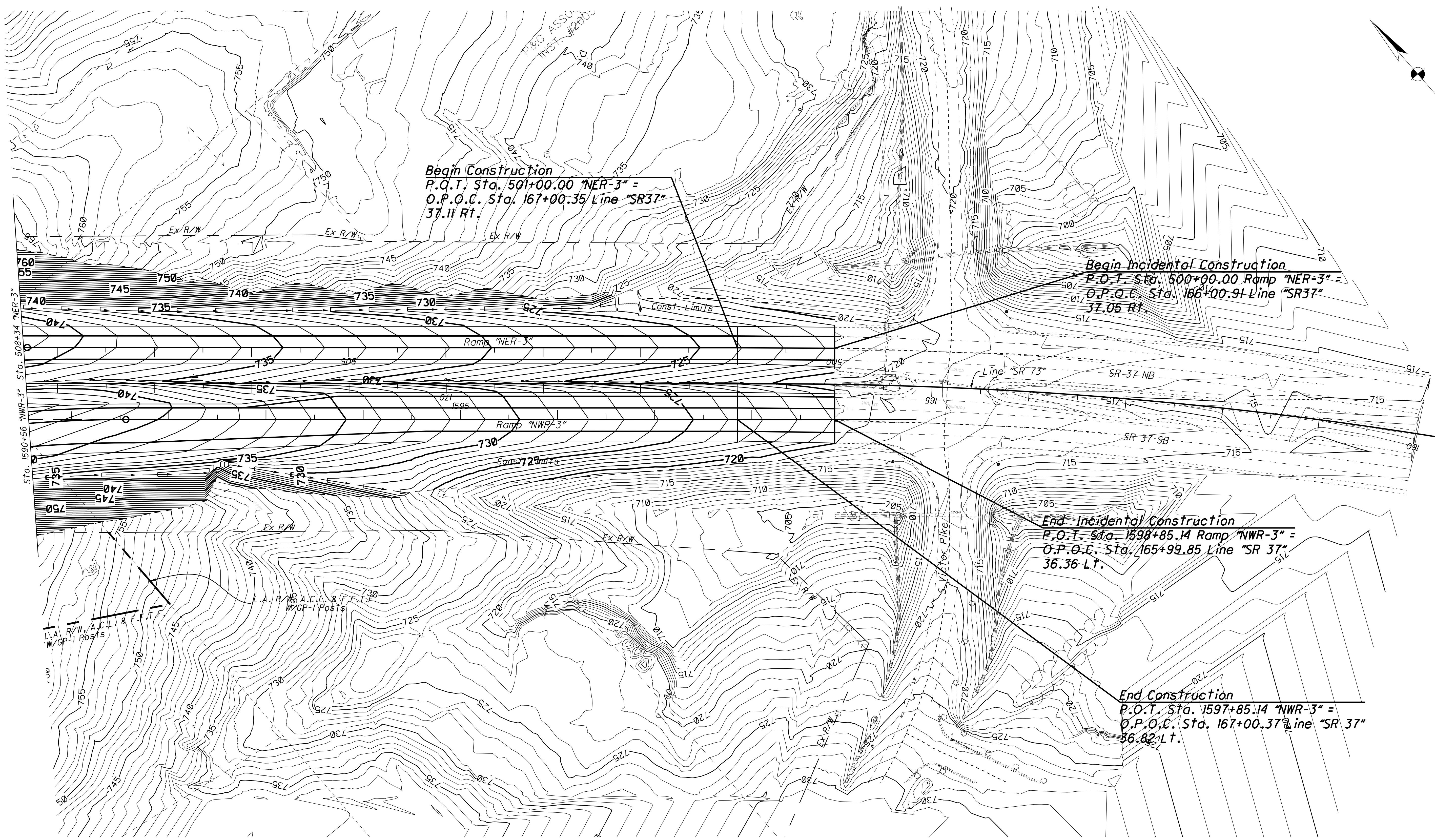
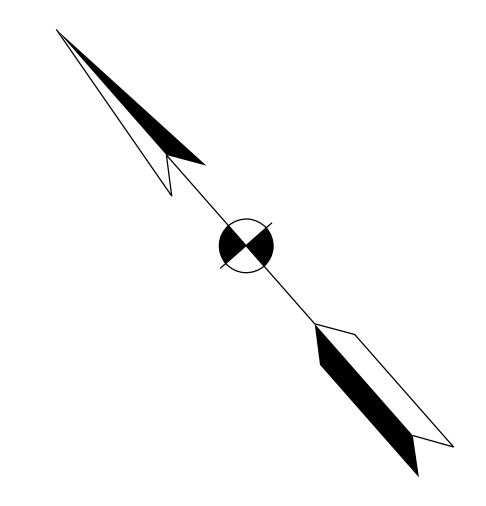
--	--



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DATE: 9/4/2012	
DESIGNED: JB	DRAWN: ETD
CHECKED: RT	CHECKED: WJW

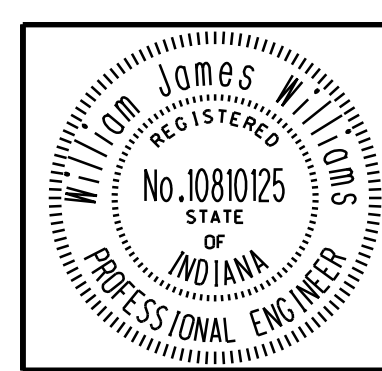
INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE GRADING DETAILS RAMPS "NER-3" "NWR-3" "SEL-3" "SER-3"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 16-03
CONTRACT IR-33742	SHEETS 123 of 173
	PROJECT 1006075



DATE: 10/3/2012
PROJECT: 1003626-000
LOCATION: N. Projects 256275001Y Drawings Y4 Transp Cadd Road SR 37 Detail Sheets G Grading Plans 256275001G04-S99.dgn

--	--

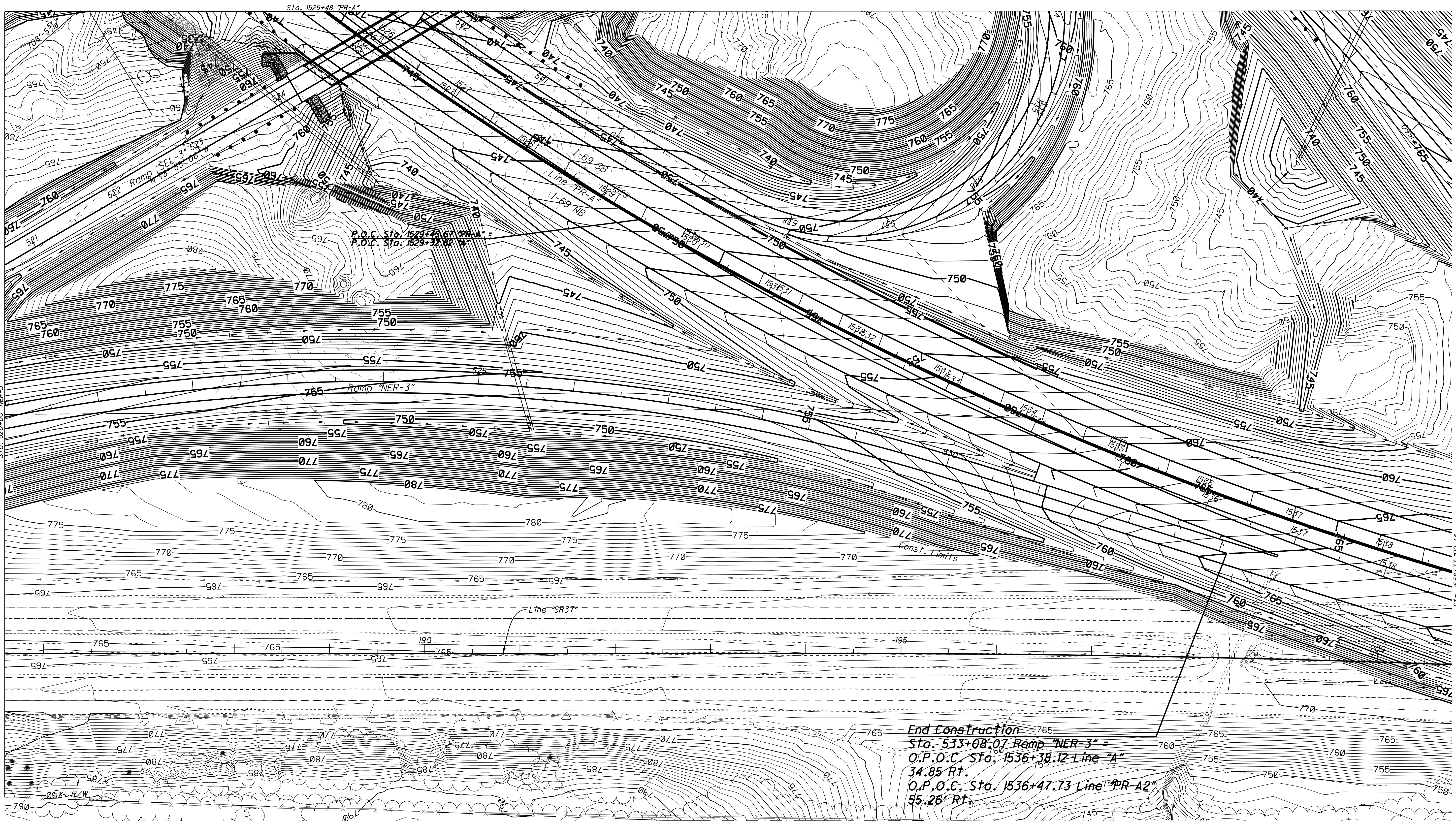


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DATE: 9/4/2012	
DESIGNED: JB	DRAWN: ETD
CHECKED: RT	CHECKED: WJW

INDIANA DEPARTMENT OF TRANSPORTATION	
INTERCHANGE GRADING DETAILS	
RAMPS "NER-3" "NWR-3"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
N/A	1006075

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	16-04	124 of 173
CONTRACT	PROJECT	
IR-33742	1006075	



End Construction
Sta. 533+08.07 Ramp "NER-3"
O.P.O.C. Sta. 1536+38.12 Line "A"
34.85 Rt.
O.P.O.C. Sta. 1536+47.73 Line "PR-A"
55.26 Rt.

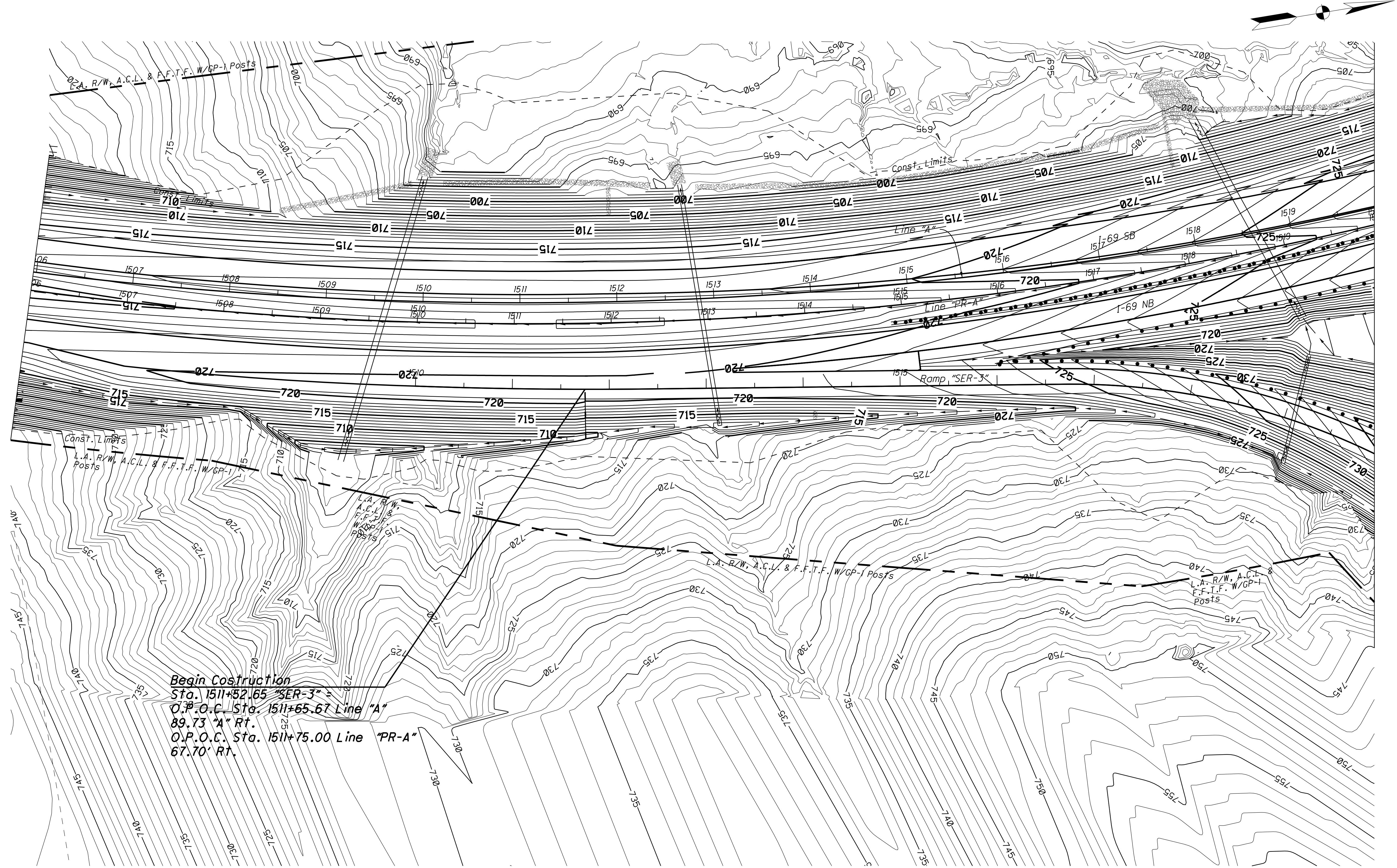
DATE: 10/3/2012
FILE: N:\3628\NRY
LOCATION: N:\Projects\25627500\Y Drawings\4 Transp\Cadd\Road\SR37 Detail Sheets\G Grading Plans\25627500\GDS-SR37.dgn



RECOMMENDED
FOR APPROVAL
DESIGNED: JB
CHECKED: RT
DRAWN: ETD
CHECKED: WJW
DATE: 9/4/2012

INDIANA
DEPARTMENT OF TRANSPORTATION
INTERCHANGE GRADING DETAILS
RAMP "NER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 10-05
CONTRACT IR-33742	SHEETS 125 of 173
	PROJECT 1006075



Begin Construction
Sta. 1511+52.65 "SER-3"
O.P.O.C. Sta. 1511+65.67 Line "A"
89.73 "A" Rt.
O.P.O.C. Sta. 1511+75.00 Line "PR-A"
67.70' Rt.

DATE: 10/3/2012
PROJECT: 103630000
LOCATION: N:\Projects\103630000\Drawings\14 Transp\Road\Road\SP19 Detail Sheets\G Grading Plans\256275001\06-S99.dgn

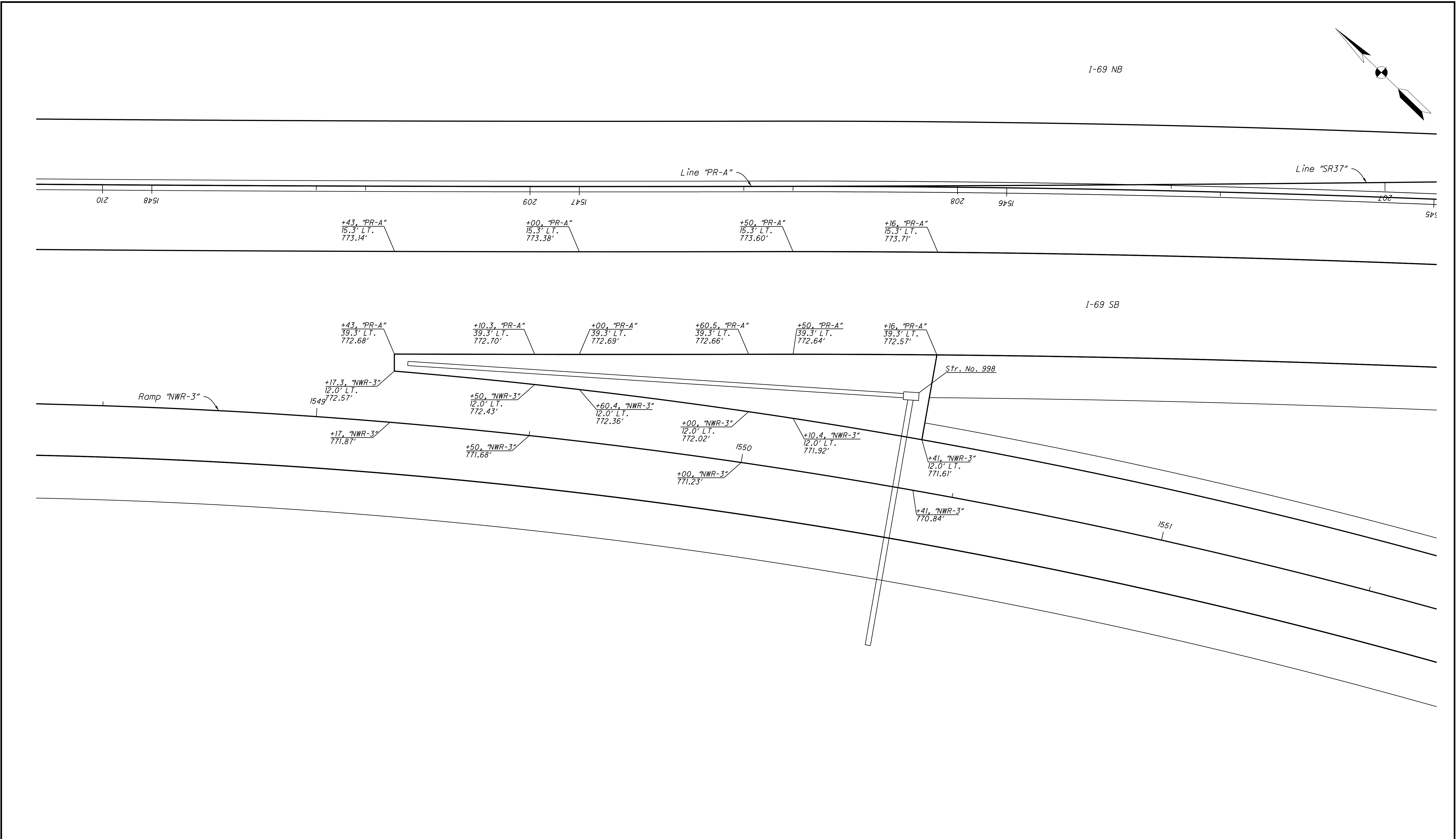


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

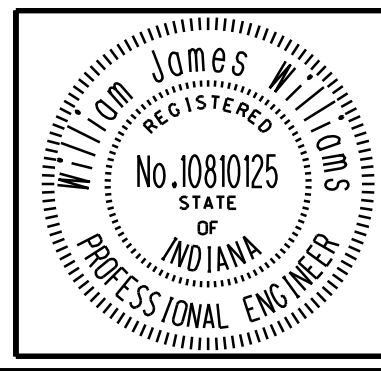
INDIANA DEPARTMENT OF TRANSPORTATION
INTERCHANGE GRADING DETAILS RAMP "SER-3"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 10-06
CONTRACT IR-33742	SHEETS 126 of 173
	PROJECT 1006075

DATE: 10/3/2012
TIME: 10:32:32 AM
LOCATION: N:\Projects\PS&E\7500\Y Drawings\4 Transp\Cadd\Road\SR9\9 Detail Sheets\C Spot Elevation Details\PS&E\7500\GD01-S9.dgn



--	--

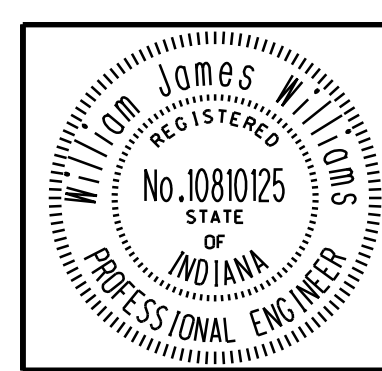
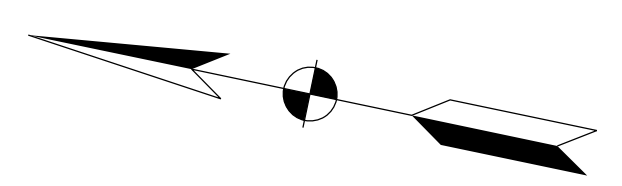
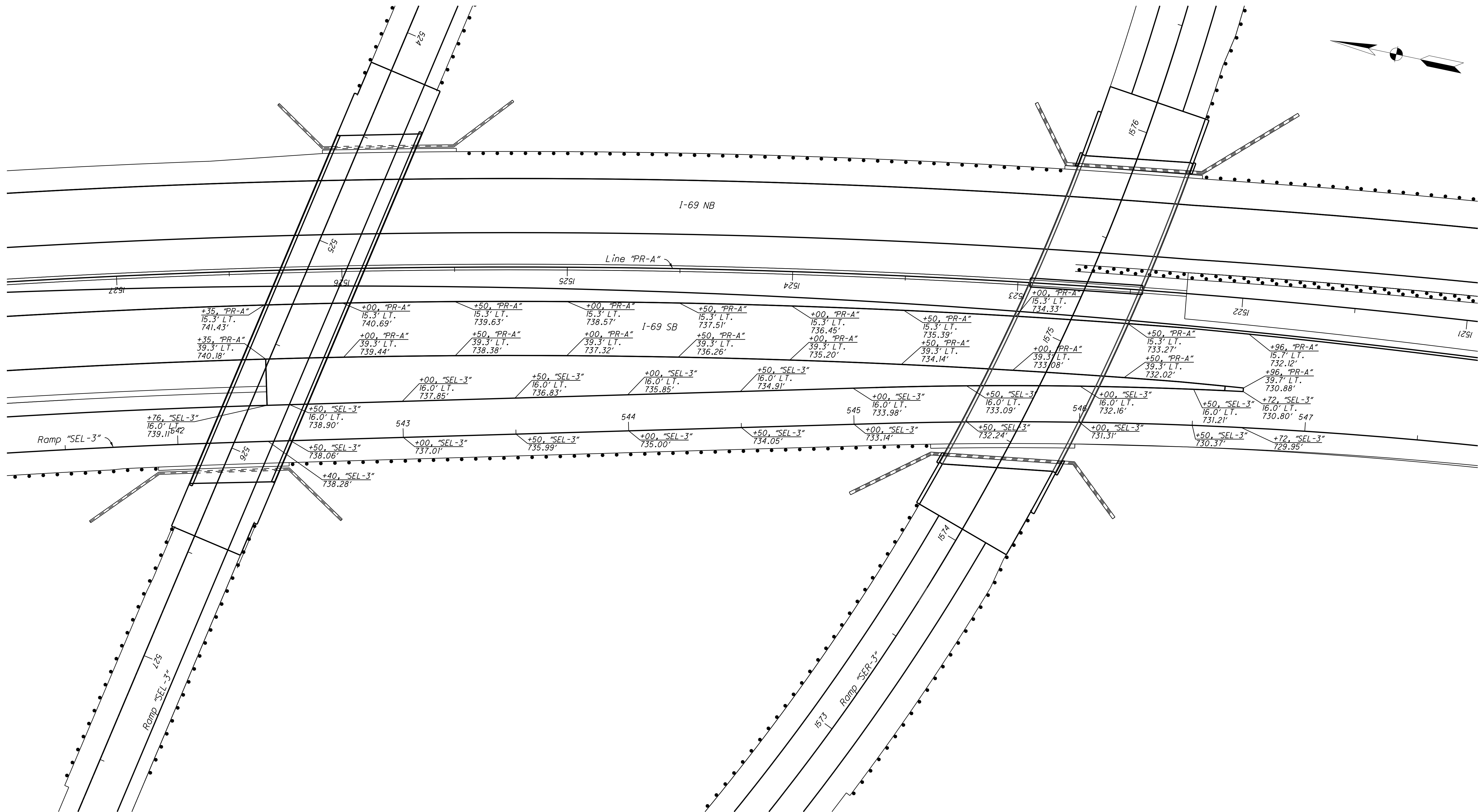


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DATE 9/4/2012	
DESIGNED: JB	DRAWN: ETD
CHECKED: RT	CHECKED: WJW

INDIANA DEPARTMENT OF TRANSPORTATION	
GORE DETAIL SHEET RAMP "NWR-3"	

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GD-01
CONTRACT IR-33742	SHEETS 127 of 173
	PROJECT 1006075

DATE: 10/3/2012
TIME: 10:34:44 AM
LOCATION: N:\Projects\25627500\Drawings\4 Transp\Road\Road\59\2 Detail Sheets\59\2\59.dgn



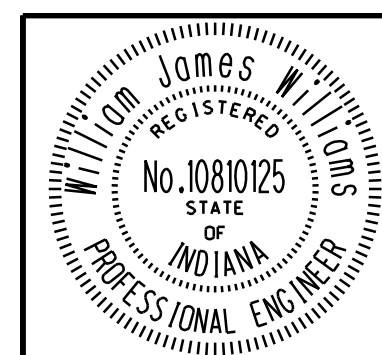
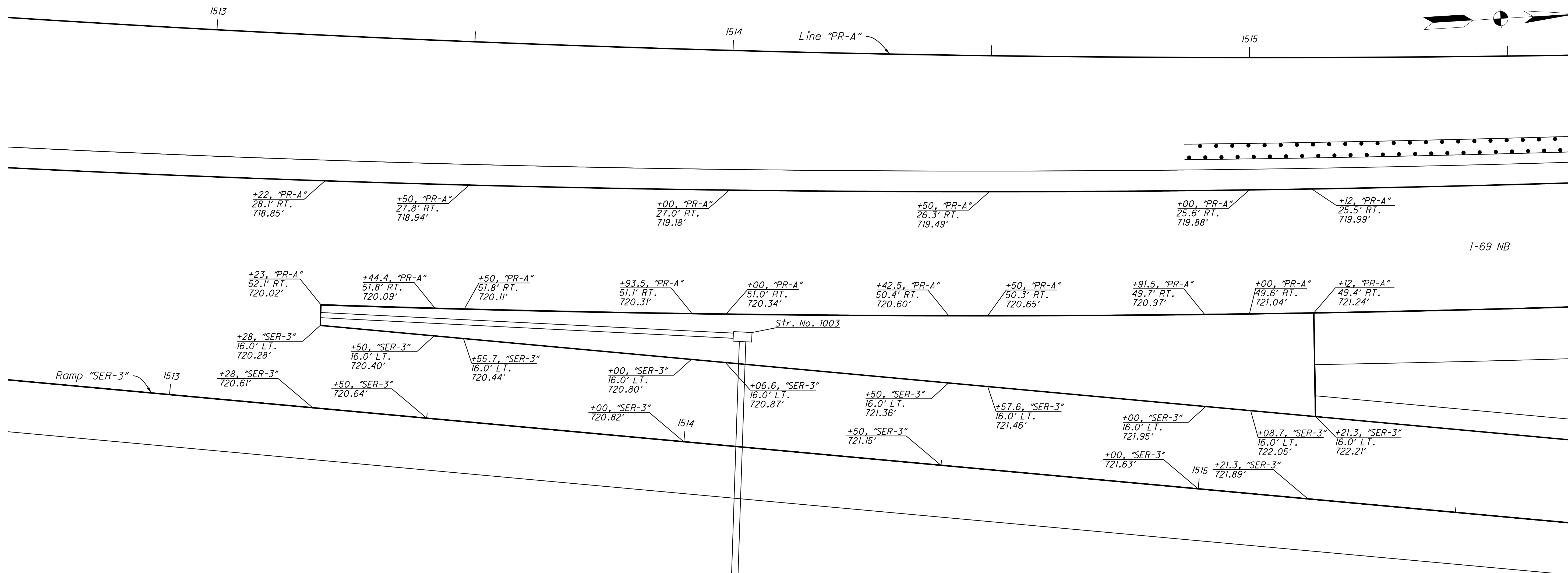
RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA
DEPARTMENT OF TRANSPORTATION

GORE DETAIL SHEET
RAMP "SEL-3"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GD-02
CONTRACT IR-33742	SHEETS 128 of 173
	PROJECT 1006075

DATE: 10/3/2012
TIME: 10:36:43 AM
LOCATION: N:\Projects\PS&E\Transp\Cadd\Road\SP9\Drawings\4 Detail Sheets\C Spot Elevation Details\PS&E\7500\03-SP9.dgn

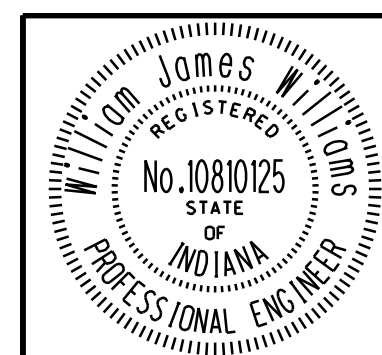
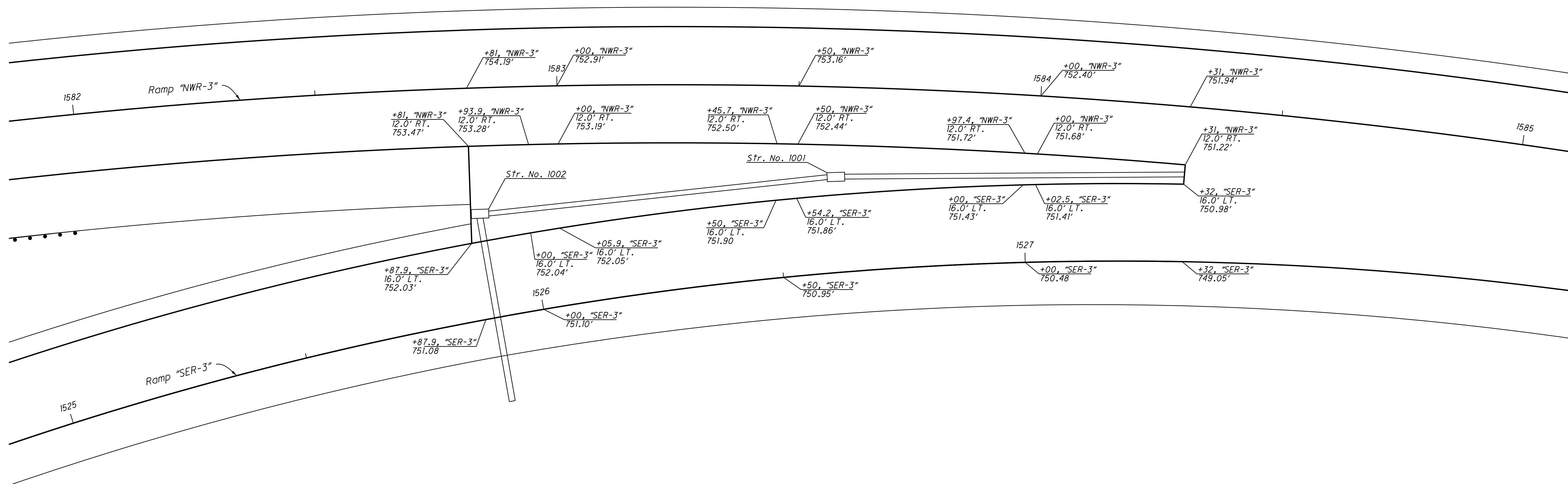
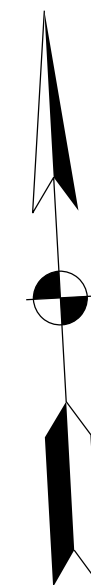


RECOMMENDED FOR APPROVAL	<i>William J. Williams</i> DESIGN ENGINEER	9/4/2012 DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

INDIANA
DEPARTMENT OF TRANSPORTATION

GORE DETAIL SHEET
RAMP "SER-3"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 60-03
CONTRACT IR-33742	SHEETS 129 of 173
	PROJECT 1006075

RECOMMENDED
FOR APPROVAL

William J. Williams
DESIGN ENGINEER DATE 9/4/2012

DESIGNED: JB

DRAWN: ETD

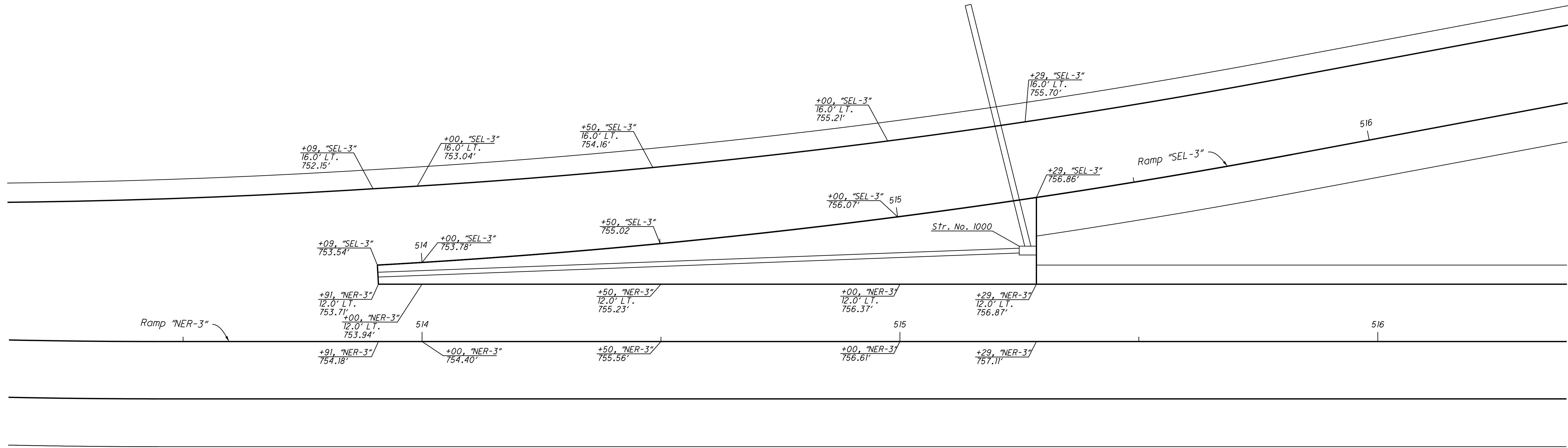
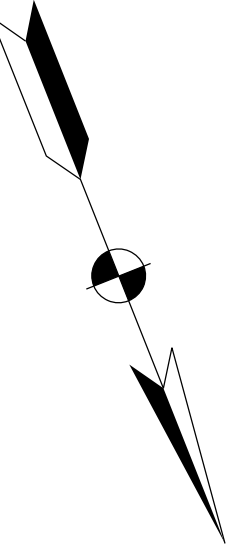
CHECKED: RT

CHECKED: WJW

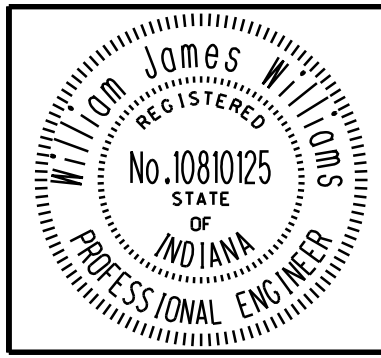
INDIANA
DEPARTMENT OF TRANSPORTATION

GORE DETAIL SHEET
RAMP "SER-3"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	60-04
CONTRACT	PROJECT
IR-33742	1006075



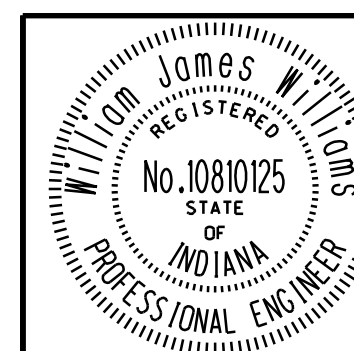
--	--



RECOMMENDED FOR APPROVAL	<i>William J. Jones</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA DEPARTMENT OF TRANSPORTATION
GORE DETAIL SHEET RAMP "SEL-3"

HORIZONTAL SCALE	BRIDGE FILE	
1" = 10'		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	GD-05	131 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

RECOMMENDED
FOR APPROVAL

William J. Williams
DESIGN ENGINEER DATE 9/4/2012

DESIGNED: JB

DRAWN: ETD

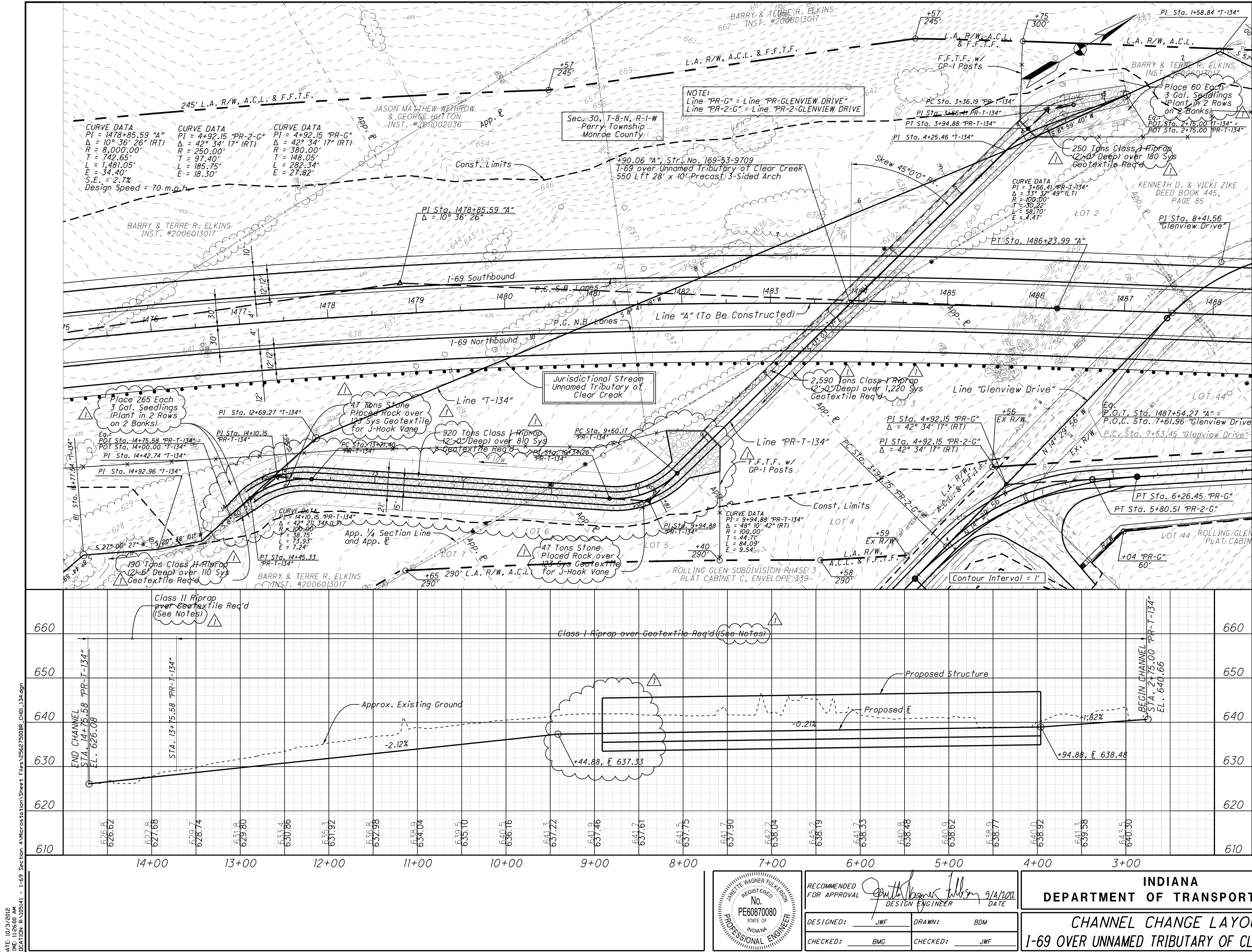
CHECKED: RT

CHECKED: WJW

INDIANA
DEPARTMENT OF TRANSPORTATION

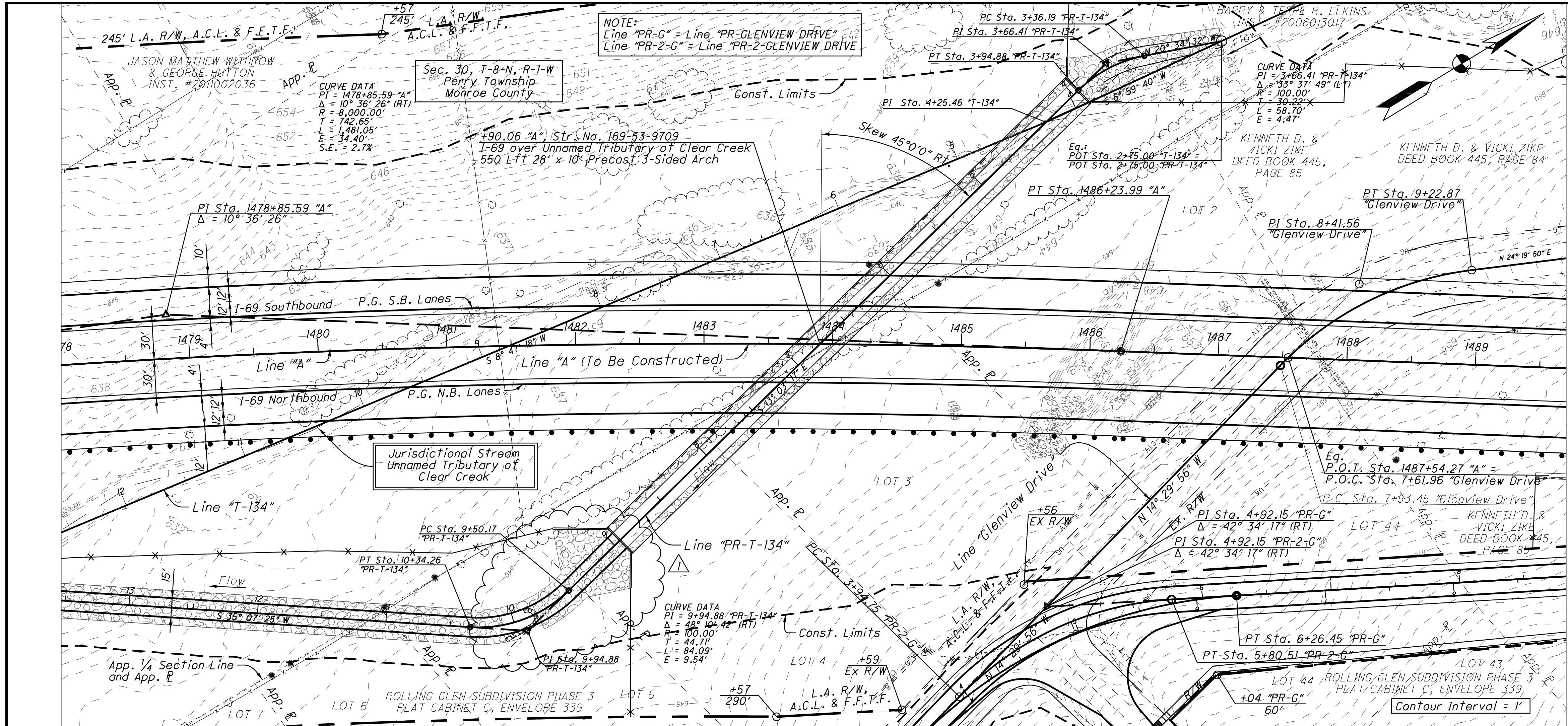
GORE DETAIL SHEET
RAMP "NER-3"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE SHEETS
ELECTRONIC / AERIAL	GD-06 131-1 of 173
CONTRACT	PROJECT
IR-33742	1006075



Notes:
1. Riprap Channel Protection shown assumes no durable rock within Channel relocation limits. However, quantities are computed assuming 50% of the relocated channel will encounter durable rock.
2. See Sheet 99 for Typical Channel Sections & Stream Mitigation Details.

CHANNEL CHANGE LAYOUT	
PRECAST REINFORCED CONCRETE 3 SIDED STRUCTURE	
1 SPAN @ 28'-0" RISE 10'-0" 45° SKEW RIGHT I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK	
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 169-53-9709
VERTICAL SCALE 1" = 10'	DESIGNATION 1172102
SURVEY BOOK ELECTRONIC / AERIAL	PAGE CH-01
CONTRACT IR-33742	SHEETS 132 of 173
	PROJECT 1006075



PRESENT STRUCTURE
None.

UTILITIES
See Page IX-01.

EARTHWORK SUMMARY
See Road Plans, Des. No. 1006075

HYDRAULIC DATA

Drainage Area	0.66 sq. mi.
Q100 Discharge	609 cfs
Q100 Elevation	640.38 ft
Gross Waterway Area Req'd (below Q100 El.)	82.6 sft
Gross Waterway Area Provided (below Q100 El.)	82.6 sft
Proposed Road Overflow Area	N/A
Q100 Velocity	8.8 ft/s
Proposed Backwater	0.05 ft
Low Structure El.	645.43 (d.s.)
Flowline El.	637.43 (d.s.)

ALTERNATE STRUCTURE - FLAT TOP CULVERT 28' x 8'
(6' Rise Above E)

Gross Waterway Area Req'd (below Q100 El.)	82.7 sft
--	----------

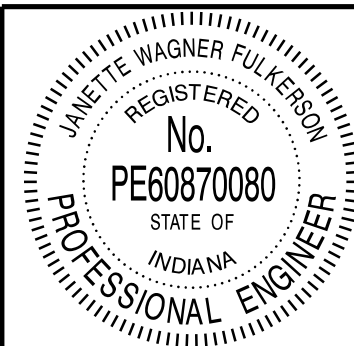
ALTERNATE STRUCTURE - TRUE ARCH CULVERT 30' x 12.5'
(10'-6" Rise Above E)

Gross Waterway Area Req'd (below Q100 El.)	84.6 sft
--	----------

Note:
See Sheet 21 for Benchmark Data
See Sheet 99 for Typical Channel Sections
See Sheet 99 & 132 for Stream Mitigation Details
Riprap Channel Protection shown assumes no durable rock within channel relocation Limits.

LAYOUT

PRECAST REINFORCED CONCRETE
3 SIDED STRUCTURE
1 SPAN @ 28'-0" RISE 10'-0" 45° SKEW RIGHT
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWF	DRAWN: BDM	
CHECKED: BMG	CHECKED: JWF	

INDIANA DEPARTMENT OF TRANSPORTATION
LAYOUT
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE 169-53-9709
VERTICAL SCALE 1" = 10'	DESIGNATION 1172102
SURVEY BOOK ELECTRONIC / AERIAL	PAGE LY-01
CONTRACT IR-33742	SHEETS 133 of 173
	PROJECT 1006075

FOUNDATION REQUIREMENTS	
Allowable Factored Bearing Resistance =	25,000 psf
Resistance Factor =	0.45
Interface Friction Angle Between Str. Backfill and Concrete =	17°
Angle of internal friction for Structure Backfill =	32°
Interface Friction Angle Between Limestone and Concrete =	35°

DESIGN DATA

Live Load

The Structure shall be designed for HL-93 Loading in accordance with the AASHTO LRFD Bridge Design Specifications, 5th edition (2010) and subsequent interims.

Dead Load

Designed for self-weight plus 35 psf wearing surface

SEISMIC DESIGN DATA

Seismic Performance Zone = I

GENERAL NOTES

No. 8 Aggregate shall be used for Structure Backfill.

If cohesive soils are encountered at the proposed footing grade, they shall be completely removed to sound rock and replaced with Portland Cement Concrete, or the bottom of the footing shall be extended to the sound rock elevation. All associated costs shall be included in the cost of the structure.

A representative of the Geotechnical Engineer should verify the bearing conditions at the footing grade prior to foundation construction.

See Geotechnical Technical Memorandum, Str. 169-53-9709 for additional information.

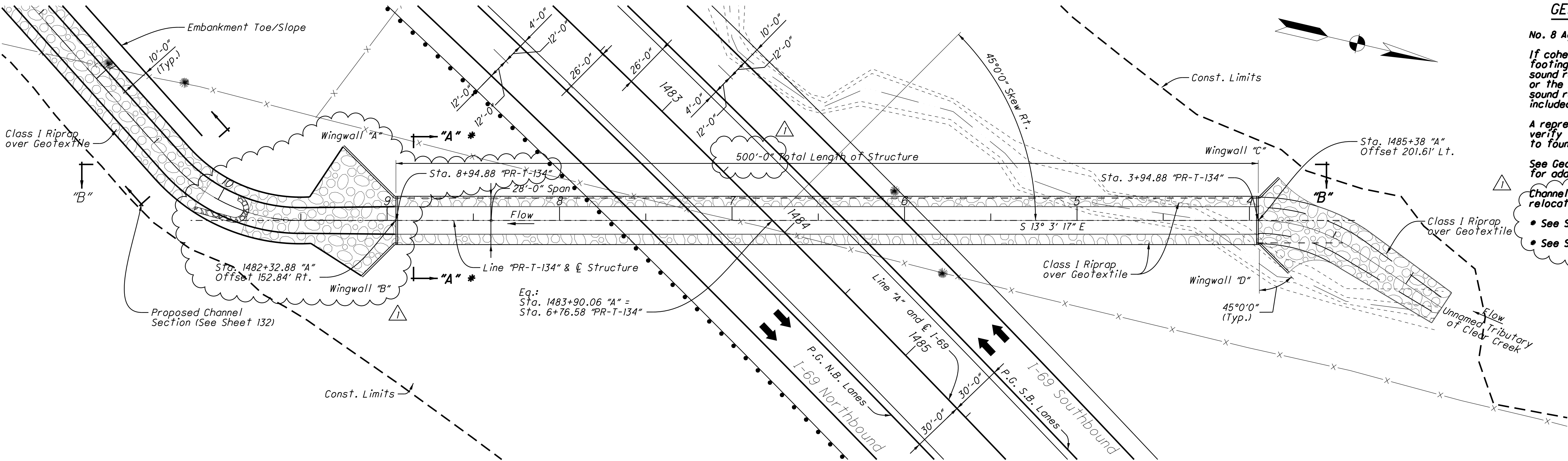
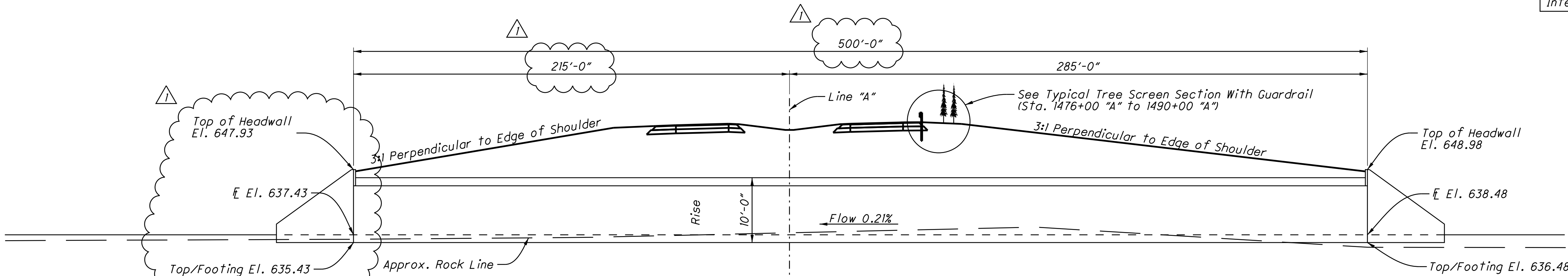
Channel Protection assumes no durable rock within relocation limits shown.

- See Sheet 135 for Section A-A.
- See Sheet 99 & 132 for Stream Mitigation Details.

GENERAL PLAN

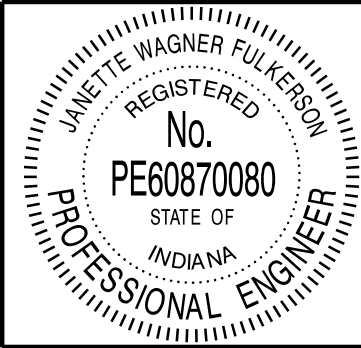
PRECAST REINFORCED CONCRETE
3 SIDED STRUCTURE

1 SPAN @ 28'-0"± RISE 10'-0"± 45° SKEW RIGHT
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK



An Alternate Structure type Flat Top Culvert with a 28'-0" perpendicular span and 8' rise may be substituted for the structure shown on the Layout Sheet.

An Alternate Structure type True Arch Culvert with a 30'-0" perpendicular span and 12.5' rise may be substituted for the structure shown on the Layout Sheet.




RECOMMENDED FOR APPROVAL	DESIGNED: JWF	DRAWN: BDM
CHECKED: BMG	CHECKED: JWF	

INDIANA DEPARTMENT OF TRANSPORTATION
GENERAL PLAN I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK

HORIZONTAL SCALE AS NOTED	BRIDGE FILE 169-53-9709
VERTICAL SCALE AS NOTED	DESIGNATION 1172102
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GP-01
CONTRACT IR-33742	SHEETS 134 of 173
	PROJECT 1006075



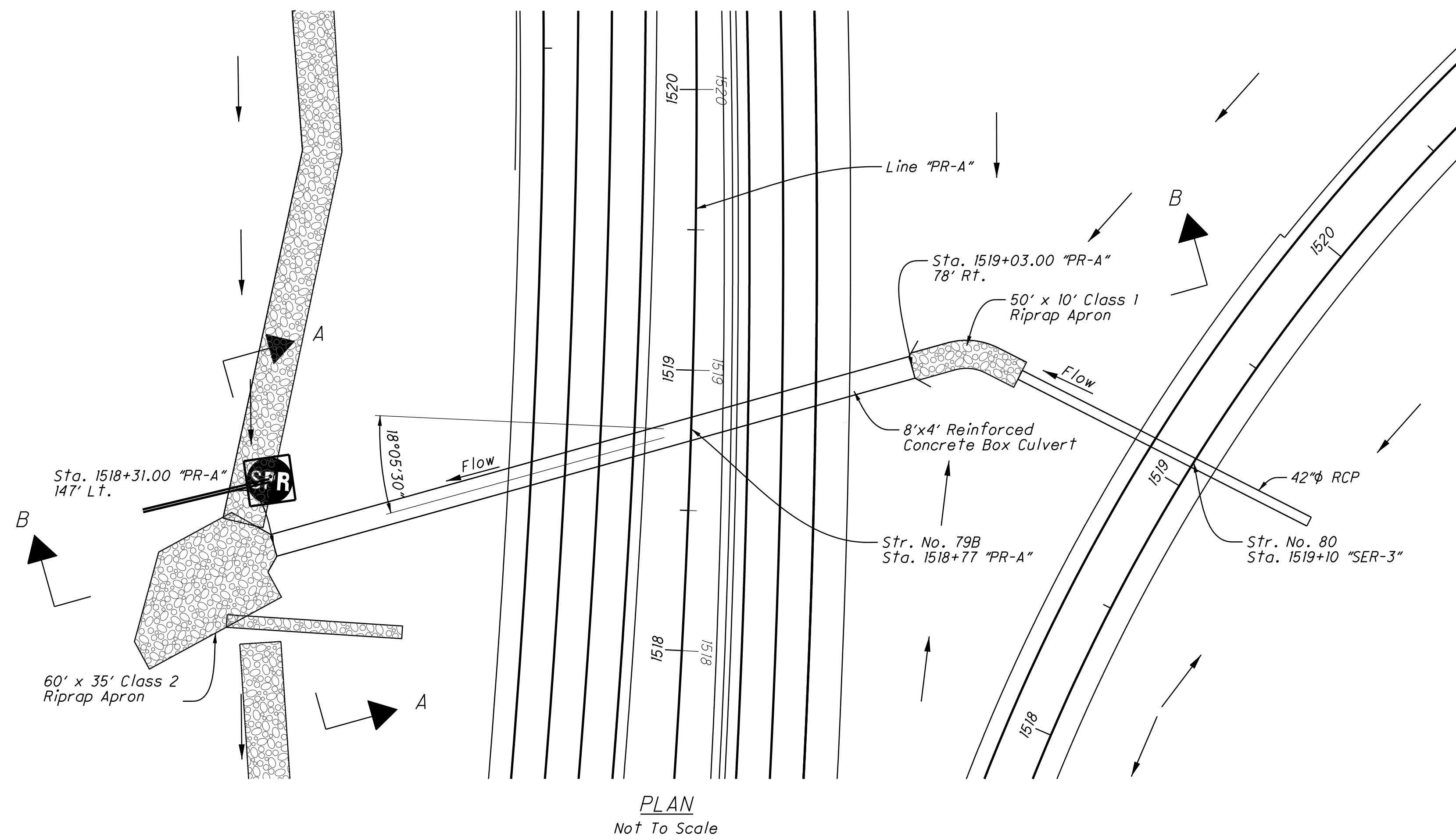
1 SPAN @ 28'-0": RISE 10'-0": 45° SKEW RIGHT
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK



DESIGNED: JWF	DRAWN: BDM
CHECKED: BMG	CHECKED: JWF

GENERAL PLAN
I-69 OVER UNNAMED TRIBUTARY OF CLEAR CREEK

HORIZONTAL SCALE	BRIDGE FILE	
AS NOTED	169-53-9709	
VERTICAL SCALE	DESIGNATION	
AS NOTED	1172102	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	GP-02	135 of 173
CONTRACT	PROJECT	
1R-33742	1006075	



HYDRAULIC DATA

Drainage Area	0.04 Sq. Miles
Design Discharge (Q100)	105.10 CFS
Hydraulic Area Required (Below Q100)	16.69 SFT
Hydraulic Area Provided (Below Q100)	16.69 SFT
Low Structure Elevation	719.00 Upstream
Q100 Highwater Elevation	717.88 Ft.
Serviceability Freeboard	8.12 Ft.
Outlet Velocity @ Q100	11.17 FPS
Backwater Skew	0.35 Ft.
	18°05'30"

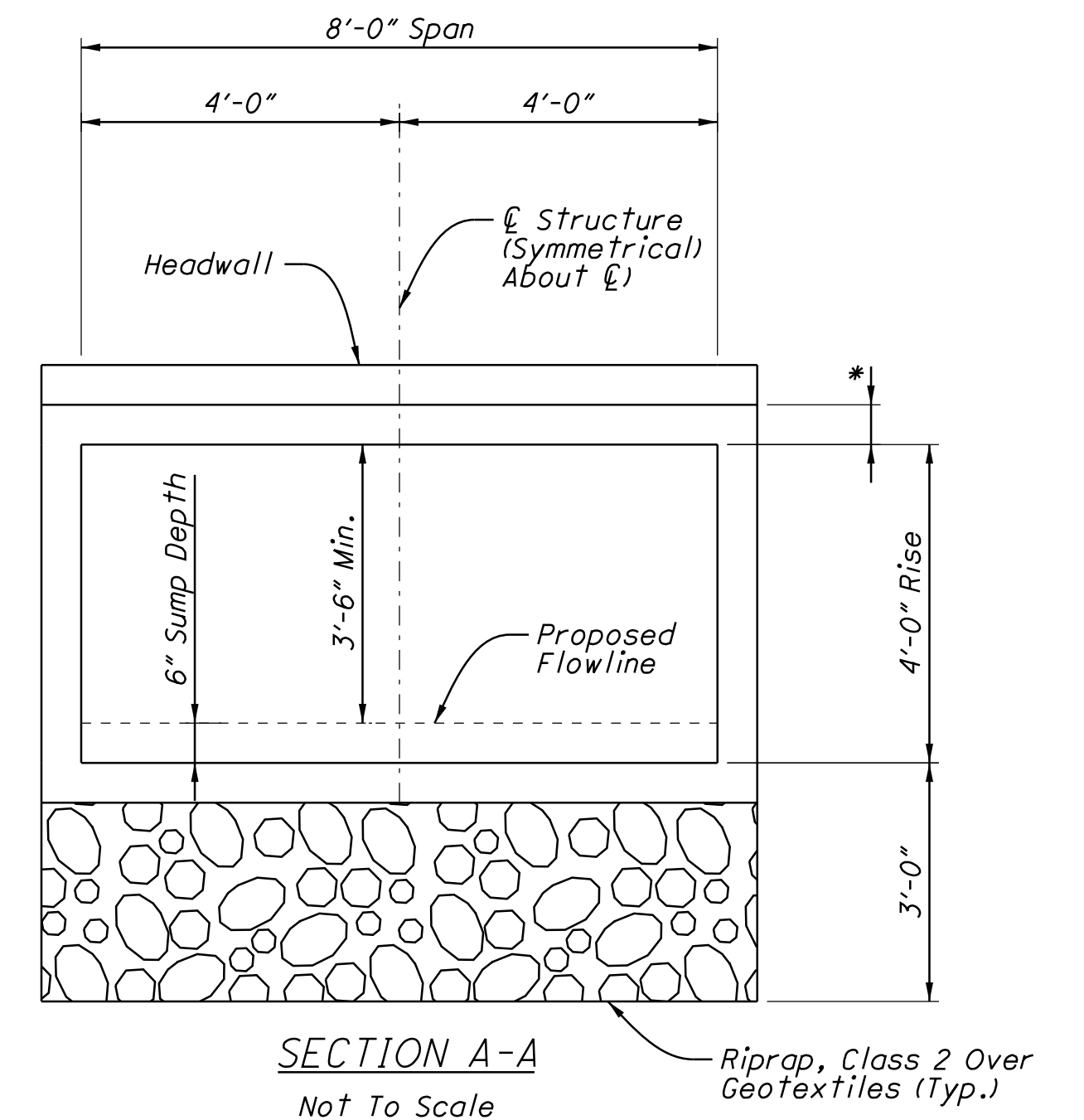
NOTES:

* - Indicates Dimensions to be Determined By the Precast Unit Manufacturer.

* - See Roadway Cross Sections For Slopes

Factored Bearing Resistance = 3,000 psf

An Alternate Structure Type With a 8'-0" Perpendicular Span and a 4'-0" Rise or Similar That Matches The Required Waterway Opening May Be Substituted For The Structure Shown.



DESIGN DATA

Designed For HL93 Loading in Accordance With AASHTO LRFD Bridge Design Specifications, Fifth Edition, and All Subsequent Interims. Dead Loads Increased 35 psf For Future Wearing Surface.

DESIGN STRENGTHS

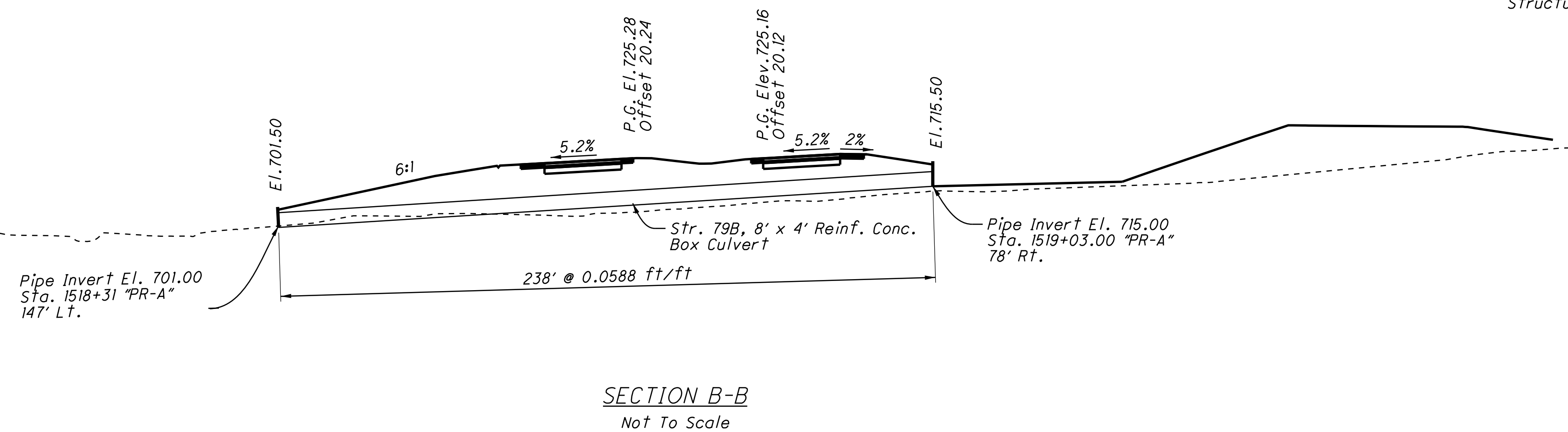
The Minimum Design Concrete Compressive Strength For Structure Sections Shall Be 5,000 psi. For Headwalls, Wingwalls, and Spandrel Walls It Shall Be 4,000 psi.

WINGWALL SOIL PARAMETERS

Angle of Friction Between Wingwall Footing and Foundation Soil (ϕ)	= 17°
Angle of Internal Friction of the Foundation Soil (ϕ)	= 32°
Ultimate Cohesion of Foundation (C)	= 1,250 psf
Ultimate Adhesion Between Foundation Soil and Concrete (C)	= 600 psf

GENERAL NOTES

- 1.) Provide Headwalls for structure
- 2.) Structure shall be sumped 6".
- 3.) Backfill with No. 8 aggregate.
- 4.) Springbox shall be req'd.



SWALE TO UNNAMED TRIBUTARY OF CLEAR CREEK UNDER I-69
PRECAST REINFORCED
CONCRETE STRUCTURE
1 SPAN @ 8'-0"
18°05'30" SKEW LT.
4'-0" RISE

SH Sink Hole

SPR Spring

DATE: 10/1/2012
TIME: 10:42:56 AM
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\25627500R1.GPJ, 938.dgn

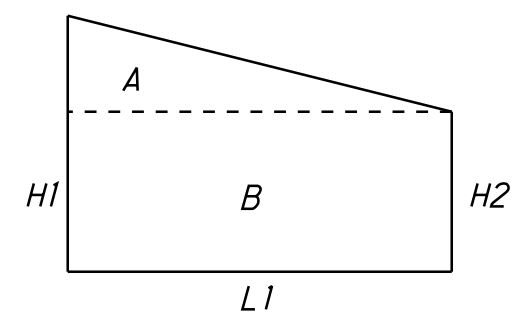
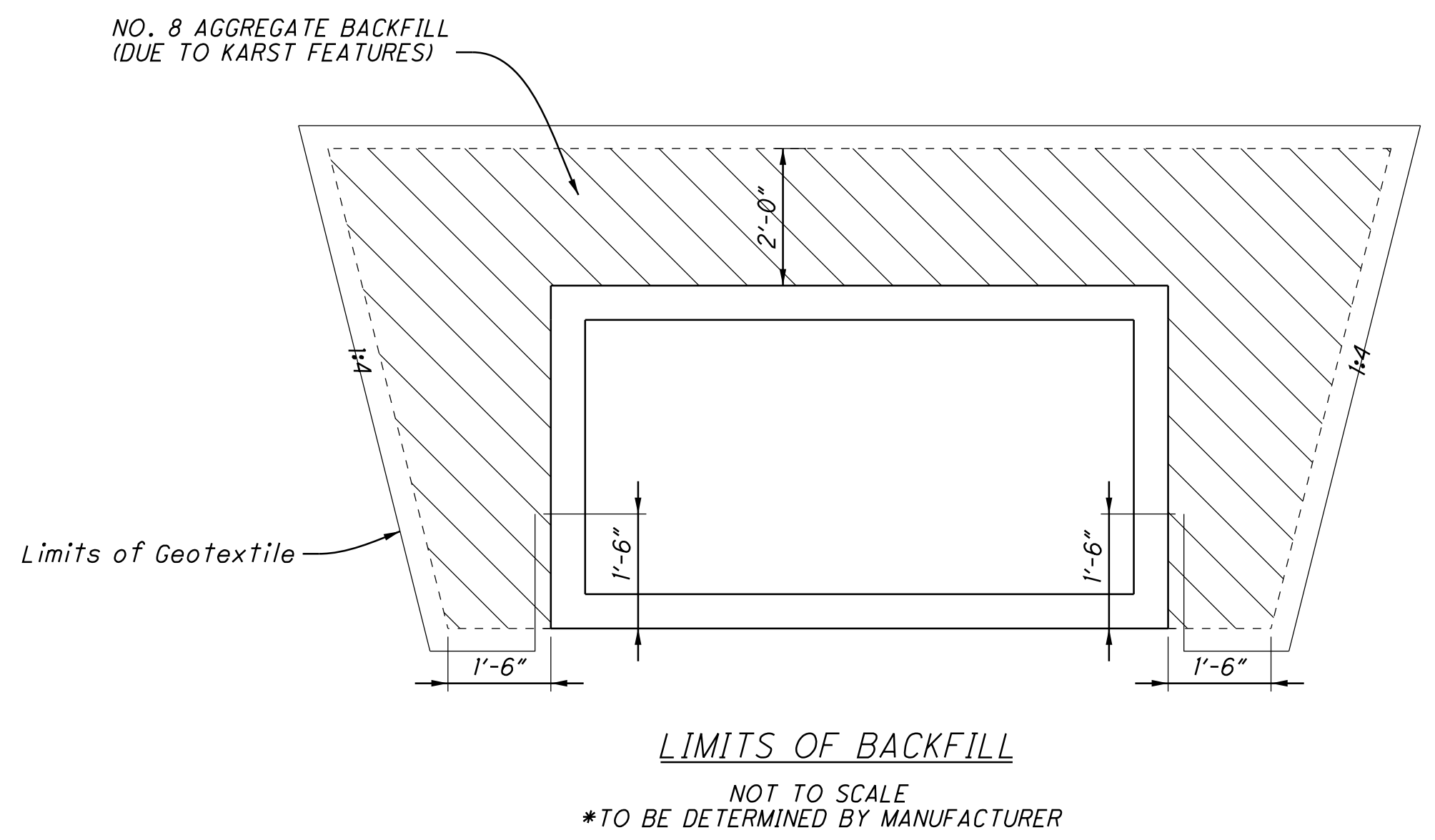
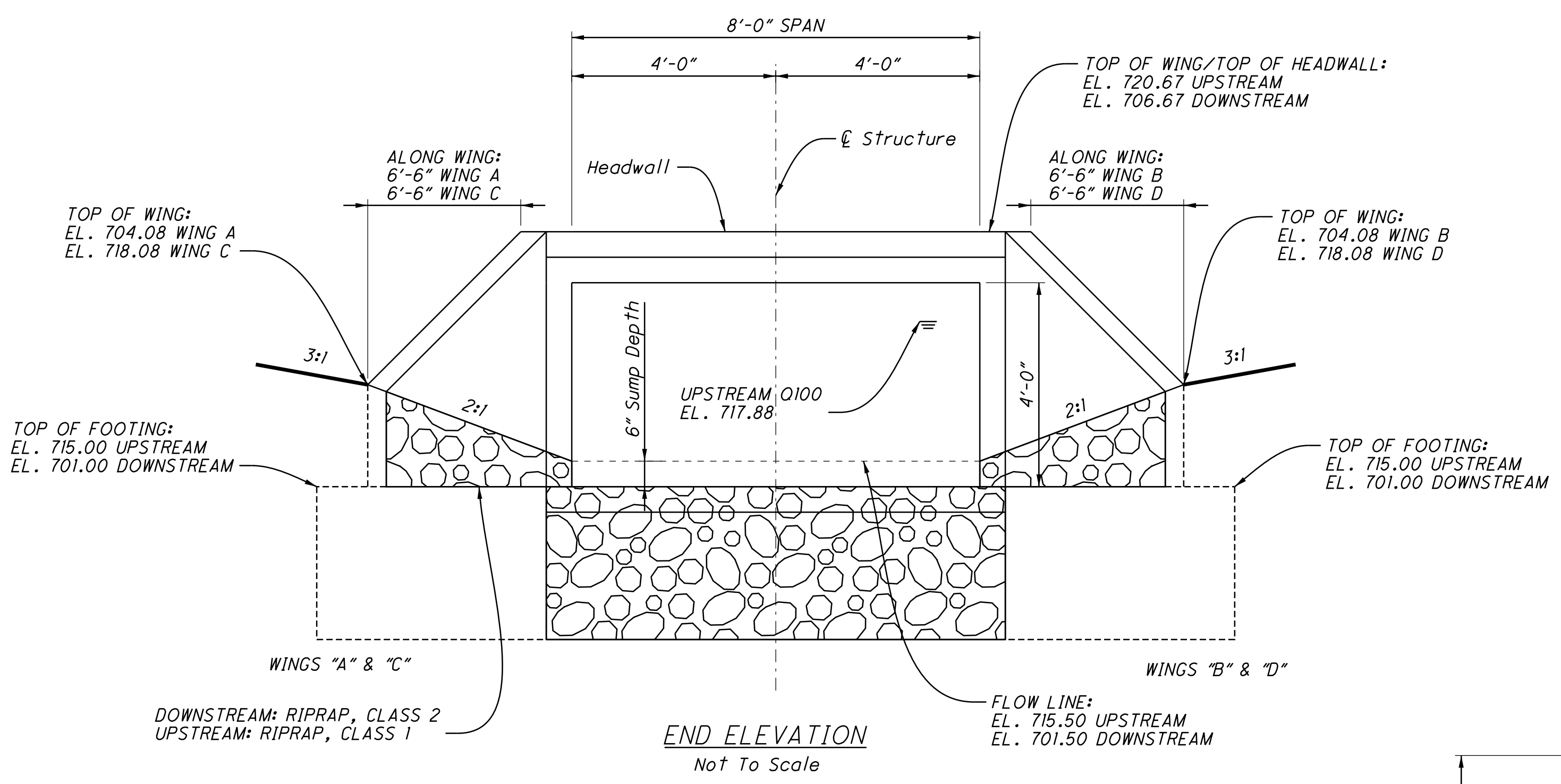
JANETTE WAGNER FULKERSON
REGISTERED
No. PE60870080
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE
DESIGNED: JWF
DRAWN: SMS
CHECKED: MDO
CHECKED: JWF

INDIANA
DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
Str. No. 938

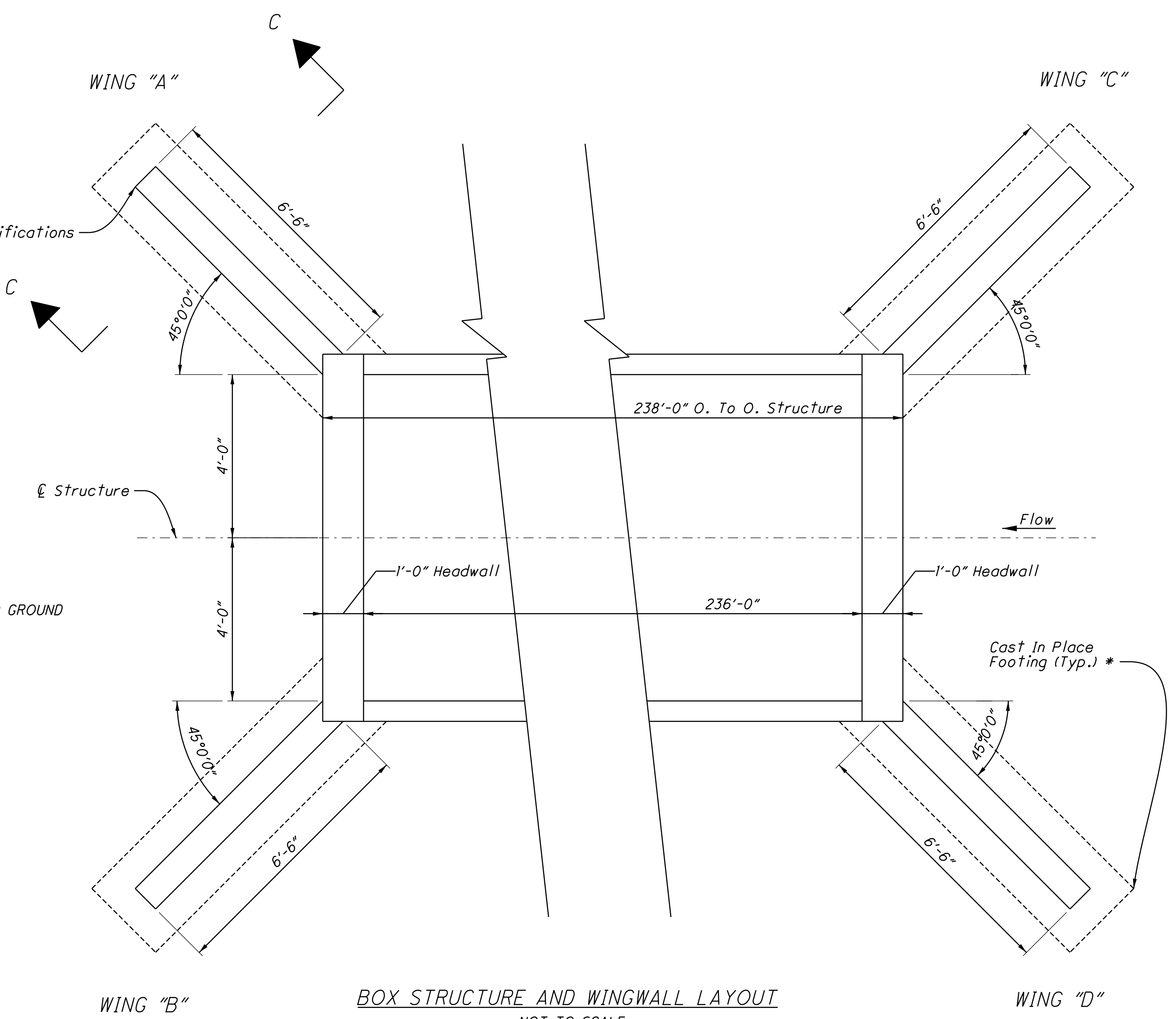
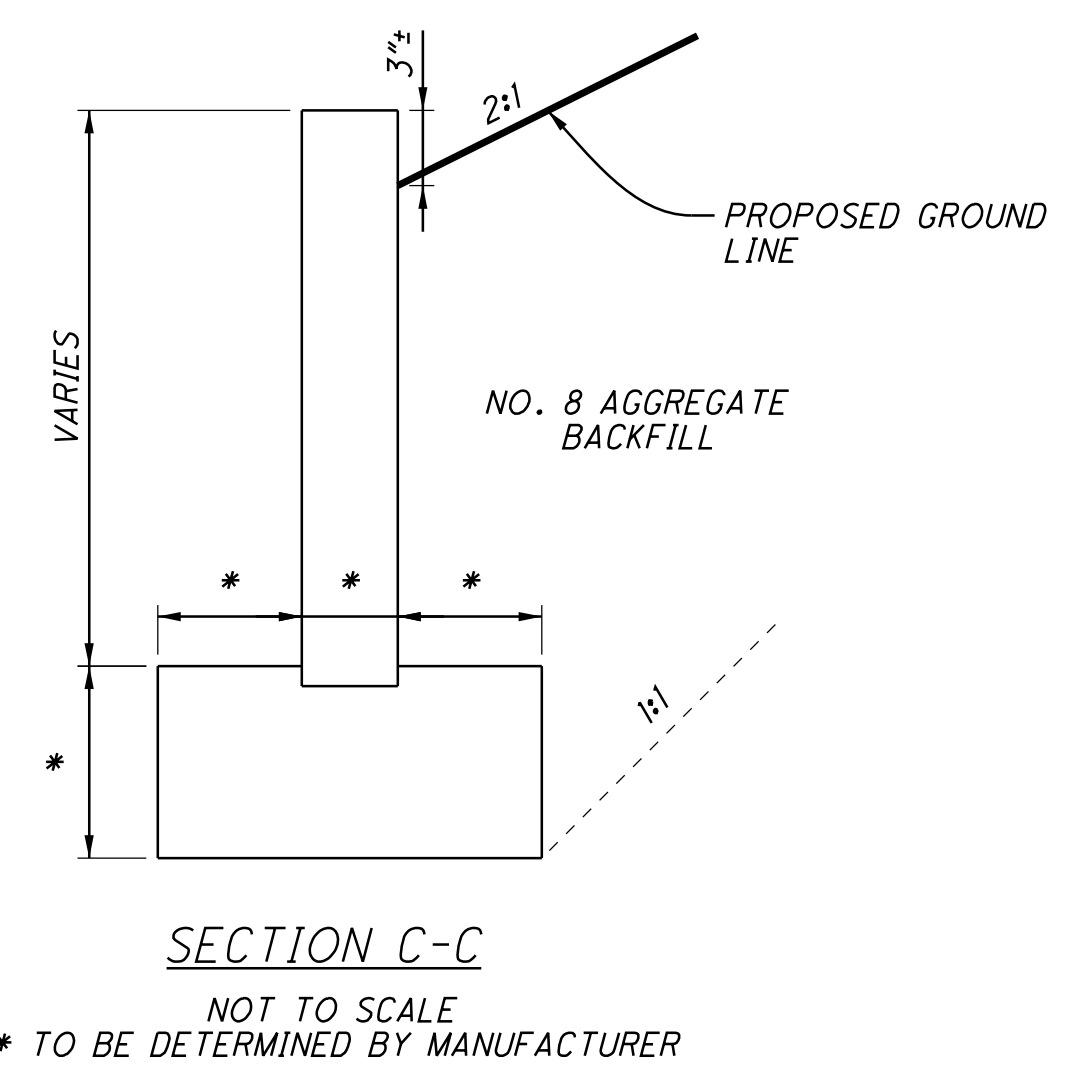
HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GP-03
CONTRACT IR-33742	SHEETS 137 of 173 PROJECT 1006075

DATE: 10/1/2012
TIME: 10:42:58 AM
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\B627500R1.GPJ, 938.dgn



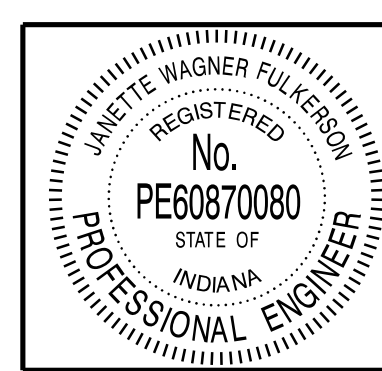
Wingwall	H1	H2	L1	A (sft)	B (sft)	Total Area (sft)
Wing A	5.67'	3.08'	6.50'	8.42	20.02	28.44
Wing B	5.67'	3.08'	6.50'	8.42	20.02	28.44
Wing C	5.67'	3.08'	6.50'	8.42	20.02	28.44
Wing D	5.67'	3.08'	6.50'	8.42	20.02	28.44
						113.76

WALL AREAS
Not To Scale



* Footings To Be Designed By
Manufacturer Based Upon Factored
Bearing Resistance

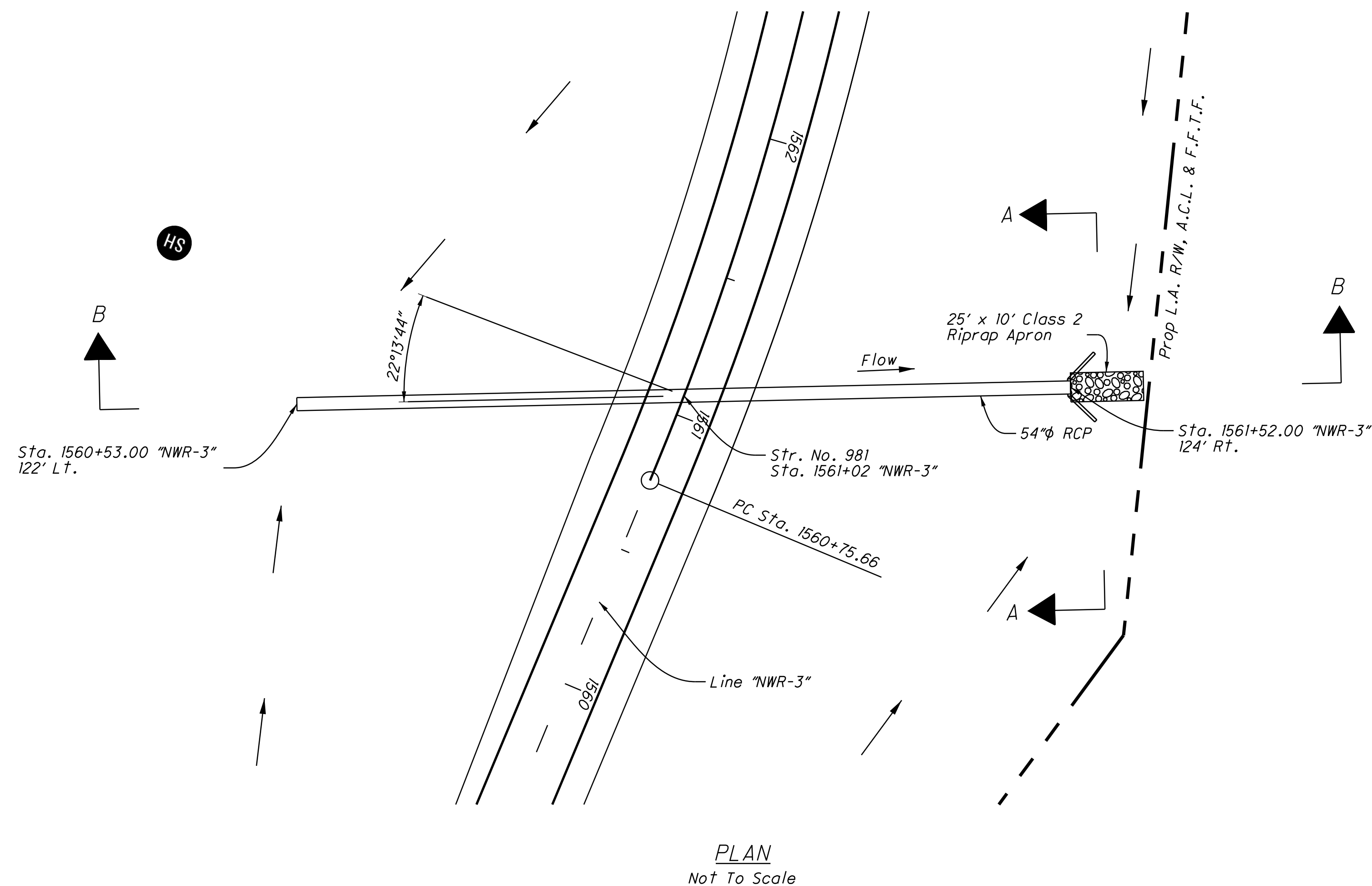
SWALE TO UNNAMED TRIBUTARY OF CLEAR CREEK UNDER I-69
PRECAST REINFORCED
CONCRETE STRUCTURE
1 SPAN @ 8'-0"
18°05'30" SKEW LT.
4'-0" RISE



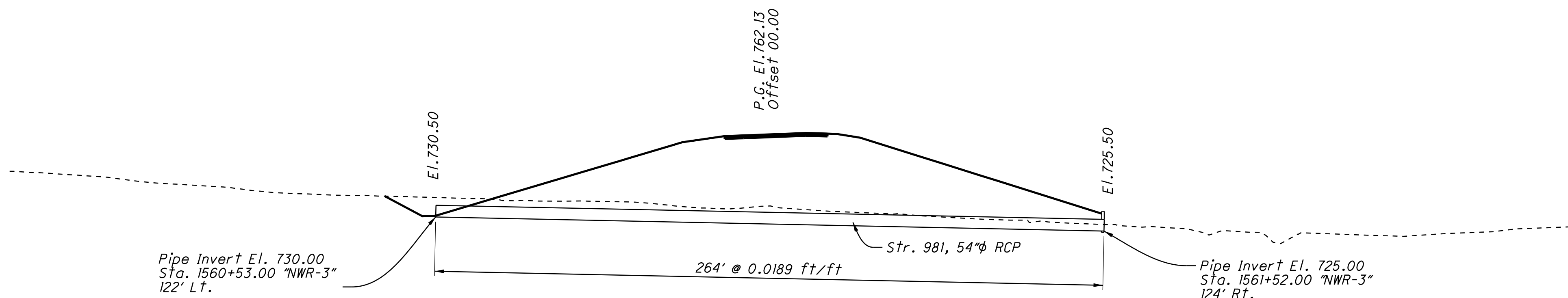
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWF	DRAWN: SMS	
CHECKED: MDO	CHECKED: JWF	

INDIANA DEPARTMENT OF TRANSPORTATION
CULVERT DETAIL Str. No. 938

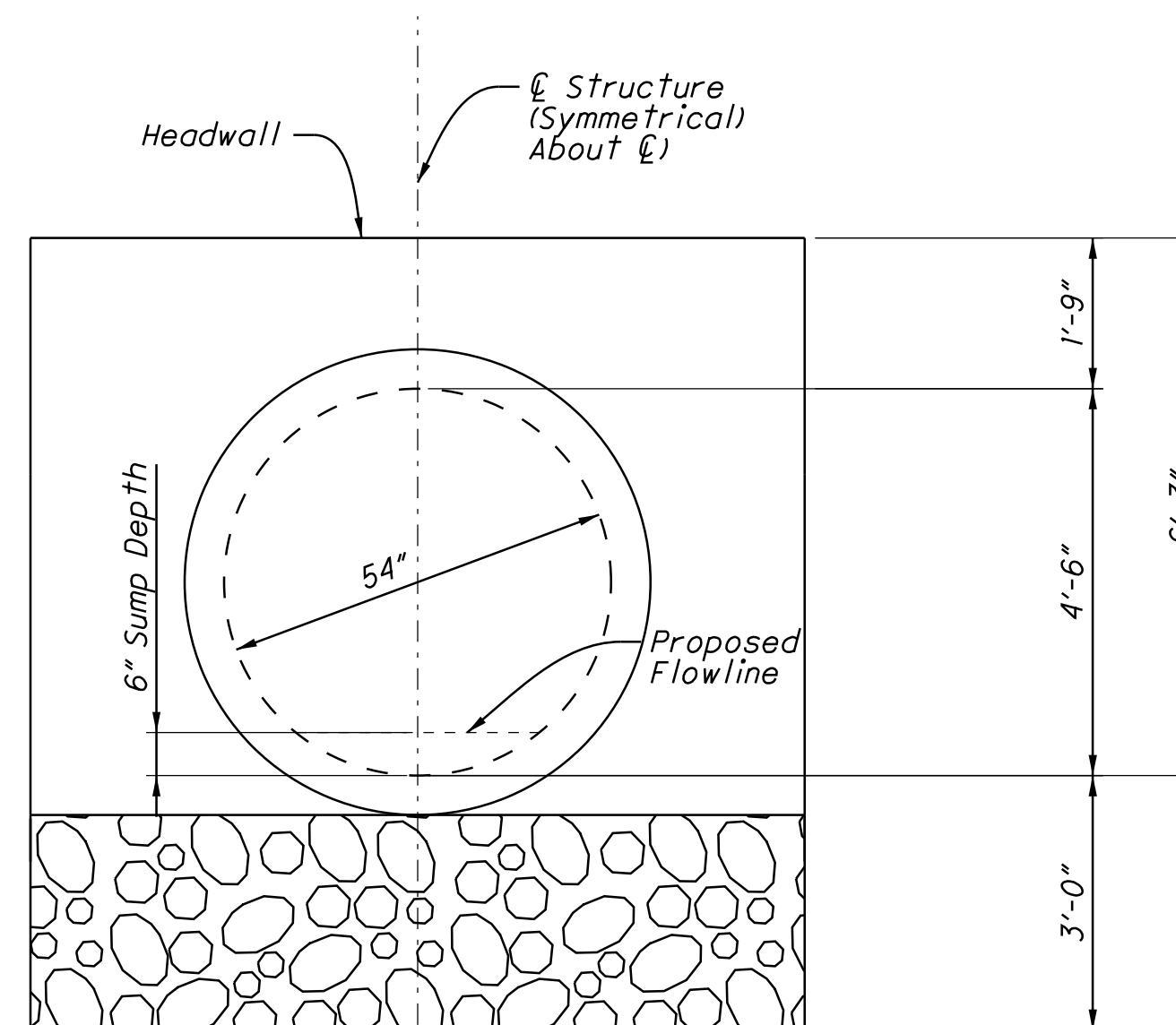
HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GP-04
CONTRACT IR-33742	SHEETS 138 of 173
	PROJECT 1006075



PLAN
Not To Scale



SECTION B-B
Not To Scale



SECTION A-A
Not To Scale

HYDRAULIC DATA

Drainage Area	0.02 Sq. Miles
Design Discharge (Q100)	51.74 CFS
Hydraulic Area Required (Below Q100)	12.74 SFT (Inlet Control)
Hydraulic Area Provided (Below Q100)	12.74 SFT (Inlet Control)
Low Structure Elevation	734.50 Upstream
Q100 Highwater Elevation	729.50 Downstream
Serviceability Freeboard	733.36 Ft.
Outlet Velocity @ Q100	28.77 Ft.
Backwater	8.80 FPS
Skew	0.92 Ft.
	22°13'44"

NOTES:

- * - Indicates Dimensions to be Determined By the Precast Unit Manufacturer.
 - * - See Roadway Cross Sections For Slopes
- Factored Bearing Resistance = 3,000 psf

DESIGN DATA

Designed For HL93 Loading in Accordance With AASHTO LRFD Bridge Design Specifications, Fifth Edition, and All Subsequent Interims. Dead Loads Increased 35 psf For Future Wearing Surface.

DESIGN STRENGTHS

The Minimum Design Concrete Compressive Strength For Structure Sections Shall Be 5,000 psi. For Headwalls, Wingwalls, and Spandrel Walls It Shall Be 4,000 psi.

WINGWALL SOIL PARAMETERS

Angle of Friction Between Wingwall Footing and Foundation Soil (ϕ)	= 17°
Angle of Internal Friction of the Foundation Soil (ϕ)	= 32°
Ultimate Cohesion of Foundation (C)	= 1,250 psf
Ultimate Adhesion Between Foundation Soil and Concrete (C)	= 600 psf

GENERAL NOTES

- 1.) Provide Headwall for structure at downstream end.
- 2.) Structure shall be sumped 6".
- 3.) Backfill with No. 8 aggregate.

UNNAMED TRIBUTARY OF CLEAR CREEK UNDER RAMP NWR-3
REINFORCED CONCRETE PIPE, 54 INCH
22°13'44" SKEW LT.

SH Sink Hole

SPR Spring

REGISTERED
No.
PE60870080
STATE OF
INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: JWF

DRAWN: SMS

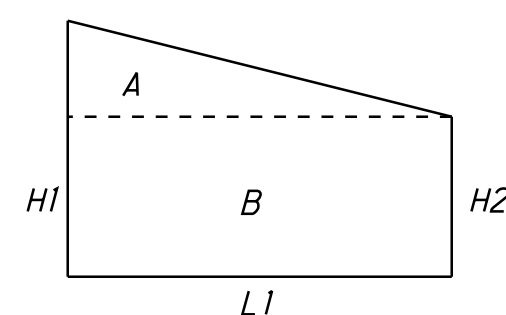
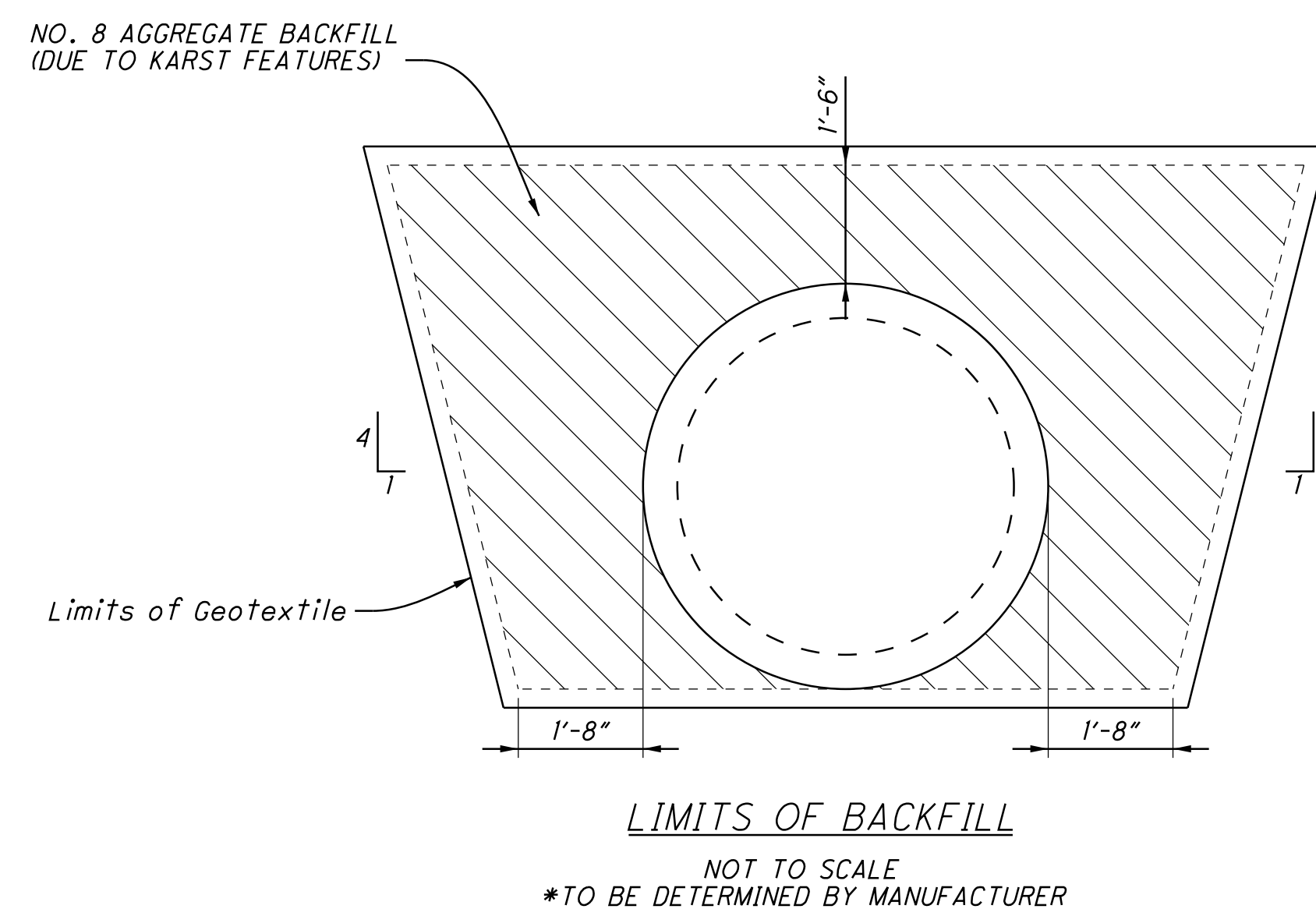
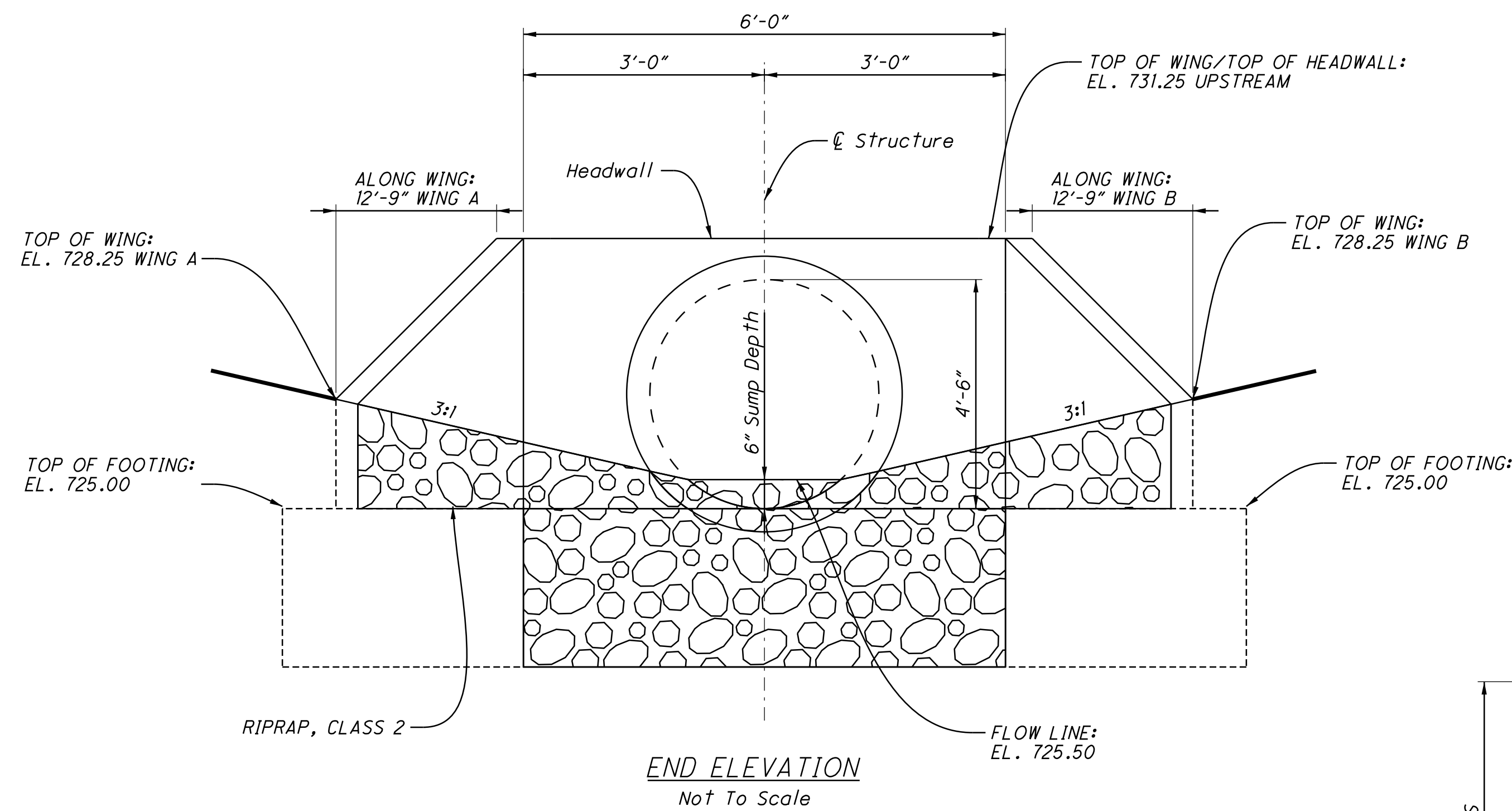
CHECKED: MDO

CHECKED: JWF

INDIANA
DEPARTMENT OF TRANSPORTATION

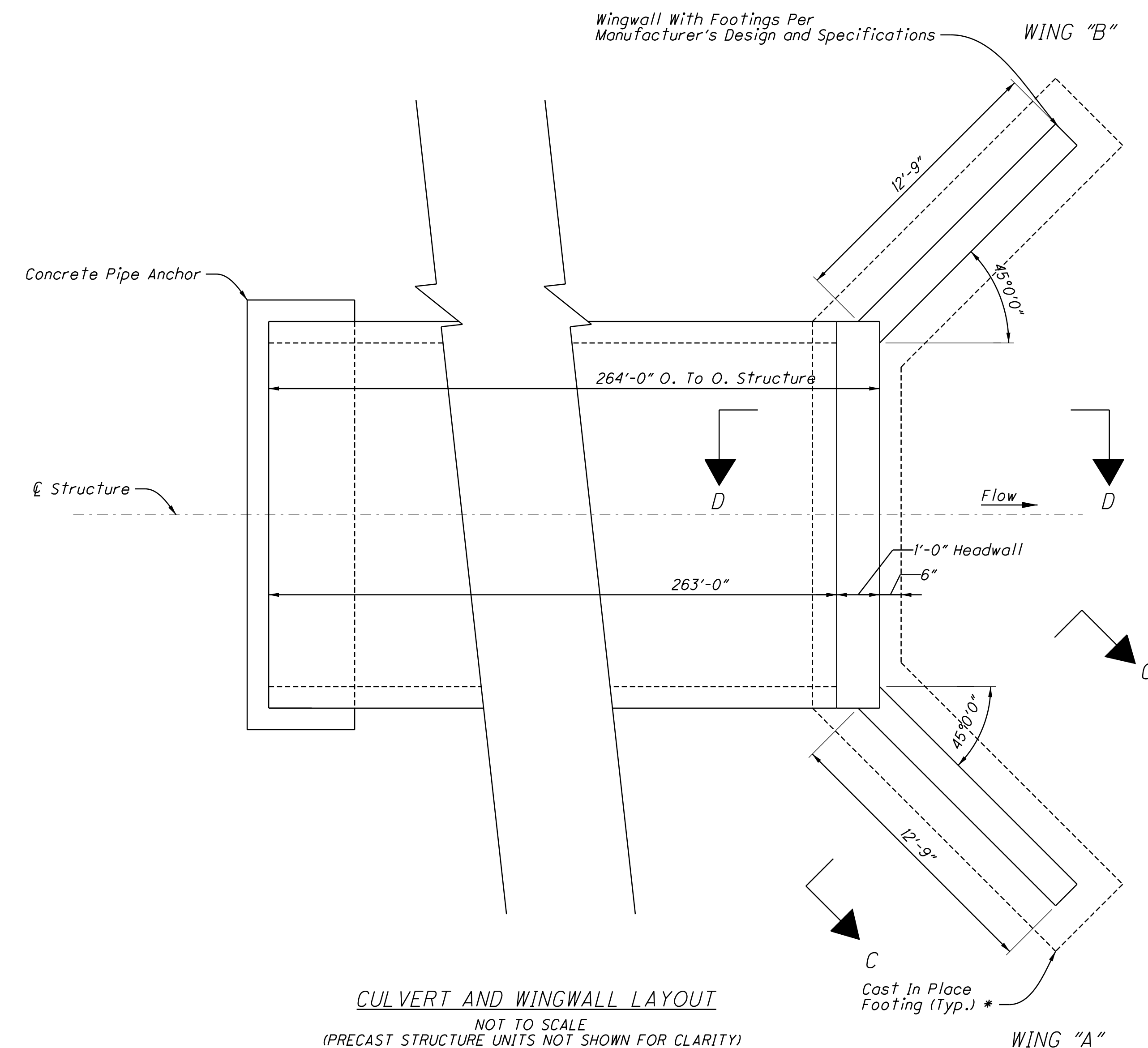
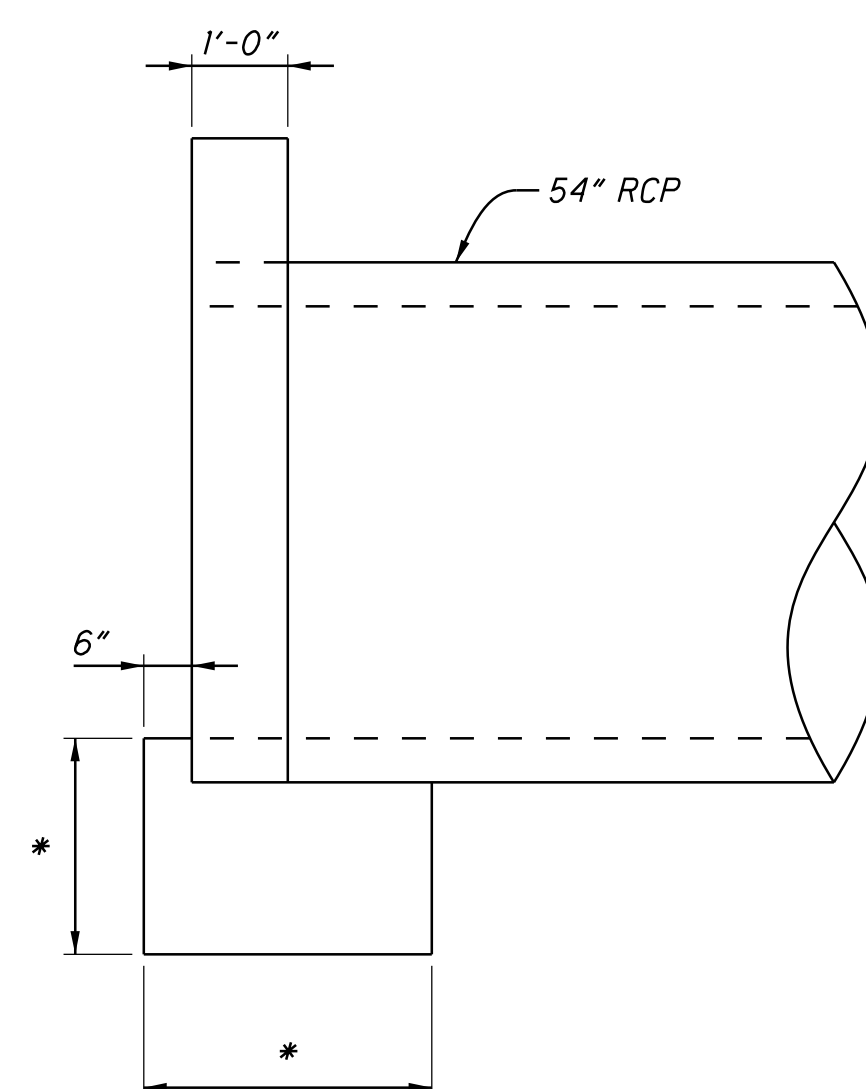
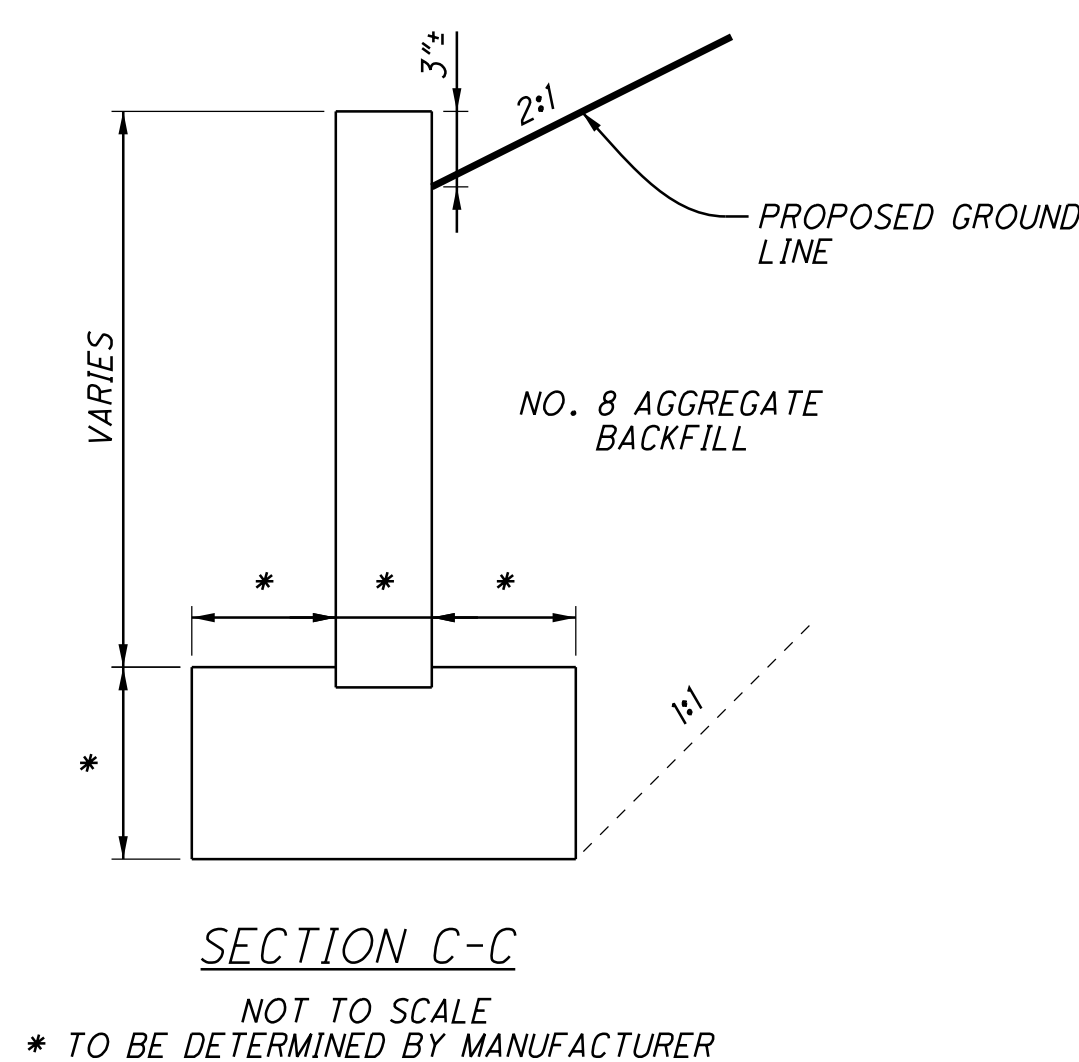
GENERAL PLAN
Str. No. 981

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE GP-05
CONTRACT IR-33742	SHEETS 139-1 of 173
	PROJECT 1006075

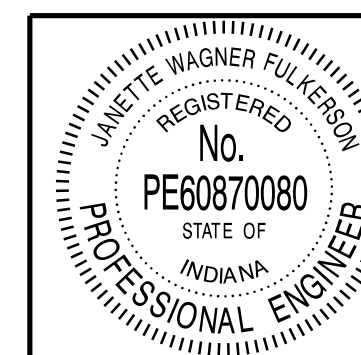


Wingwall	H1	H2	L1	A (sft)	B (sft)	Total Area (sft)
Wing A	6.25'	3.25'	12.75'	19.13	41.44	60.56
Wing B	6.25'	3.25'	12.75'	19.13	41.44	60.56
						121.12

WALL AREAS
Not To Scale



UNNAMED TRIBUTARY OF CLEAR CREEK UNDER RAMP NWR-3
REINFORCED CONCRETE PIPE, 54 INCH
22°13'44" SKEW LT.



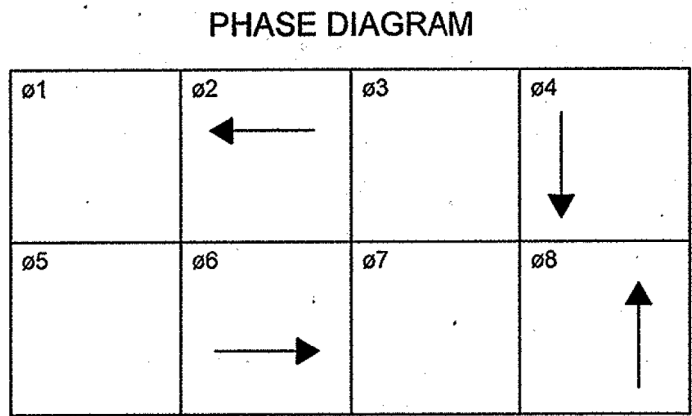
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWF	DRAWN: SMS	
CHECKED: MDO	CHECKED: JWF	

INDIANA
DEPARTMENT OF TRANSPORTATION

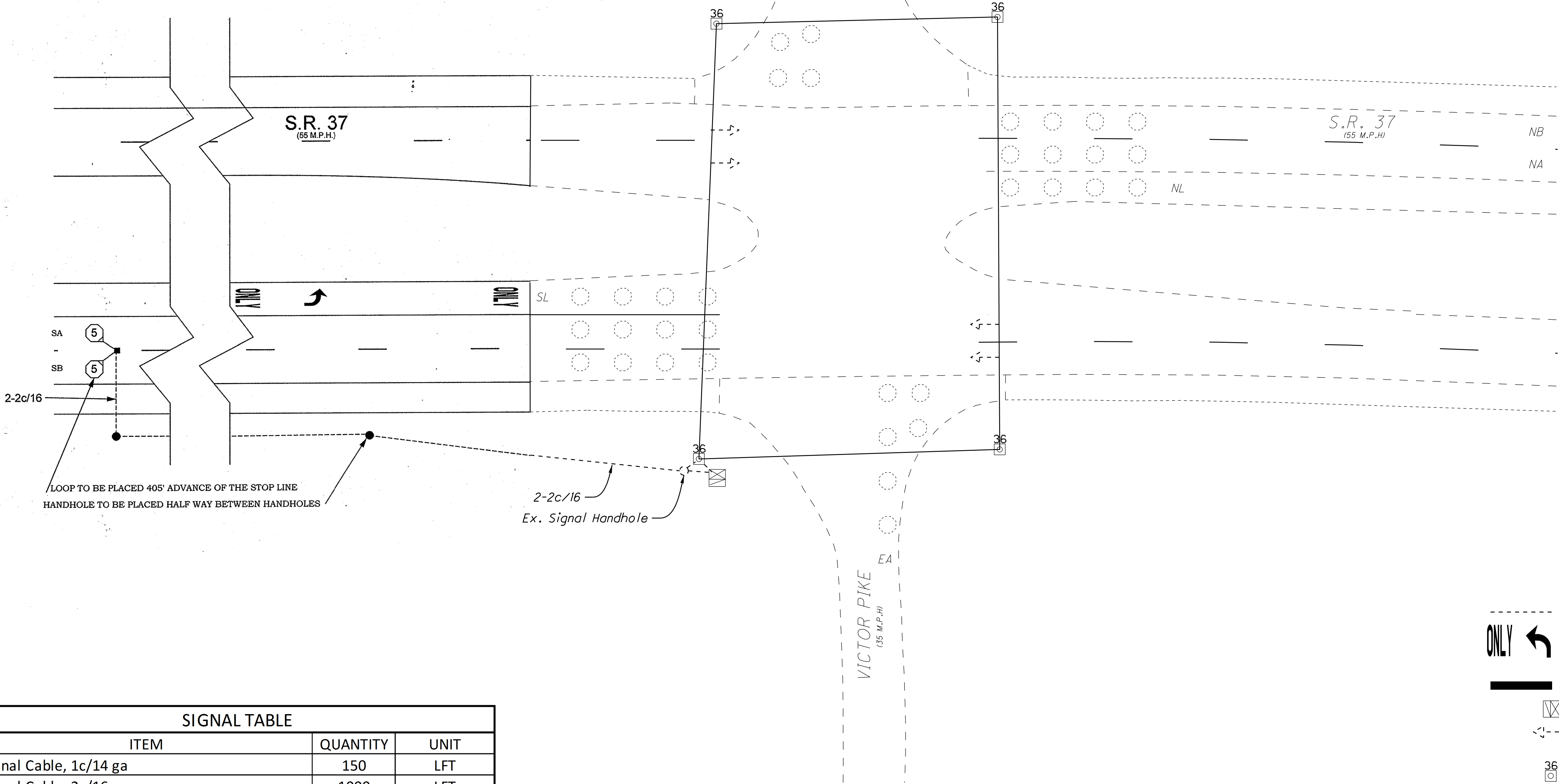
CULVERT DETAIL
Str. No. 981

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075
SURVEY BOOK	PAGE
ELECTRONIC / AERIAL	GP-06
CONTRACT	PROJECT
IR-33742	1006075

LOOP TAGGING TABLE	
LANE	TAG - NUMBER
SA	SA6 1,2,3,4
SA	SA6 5
SB	SB6 1,2,3,4
SB	SB6 5
SL	SL6 1,2,3,4
WA	WA4 1,2,3,4,5,6
NA	NA2 5
NA	NA2 1,2,3,4
NB	NB2 5
NB	NB2 1,2,3,4
NL	NL2 1,2,3,4
EA	EA8 1,2,3,4,5,6



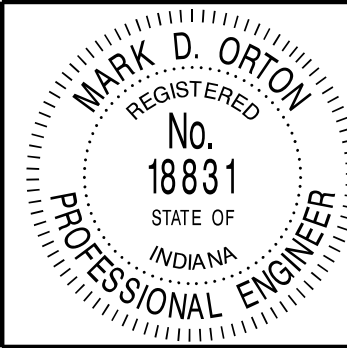
S.R. 37 IS PREFERENTIAL
S.R. 37 FLASHES AMBER
VICTOR PIKE FLASHES RED



SIGNAL TABLE		
ITEM	QUANTITY	UNIT
Signal Cable, 1c/14 ga	150	LFT
Signal Cable, 2c/16 ga	1000	LFT
Signal Detector Housing	1	EACH
Sawcut for Roadway Loop and Sealant	42	LFT
Conduit, Steel, Galvanized, 2 in	450	LFT
Handhole	2	EACH

LEGEND

- 2" GALVANIZED STEEL CONDUIT
- PAVEMENT MESSAGE MARKINGS
- 24" STOP LINE
- EX. CONTROLLER AND "P-1" CABINET ON "P-1" FOUNDATION
- EX. TRAFFIC SIGNAL HEAD, 3 FACE, 12" : RED, AMBER, GREEN
- EX. 36' STEEL STRAIN POLE & FOUNDATION
- SIGNAL DETECTOR HOUSING
- SIGNAL HANDHOLE
- EX. SIGNAL HANDHOLE
- EX. OCTAGONAL LOOP, 4 TURN SERIES
- OCTAGONAL LOOP, 4 TURN SERIES

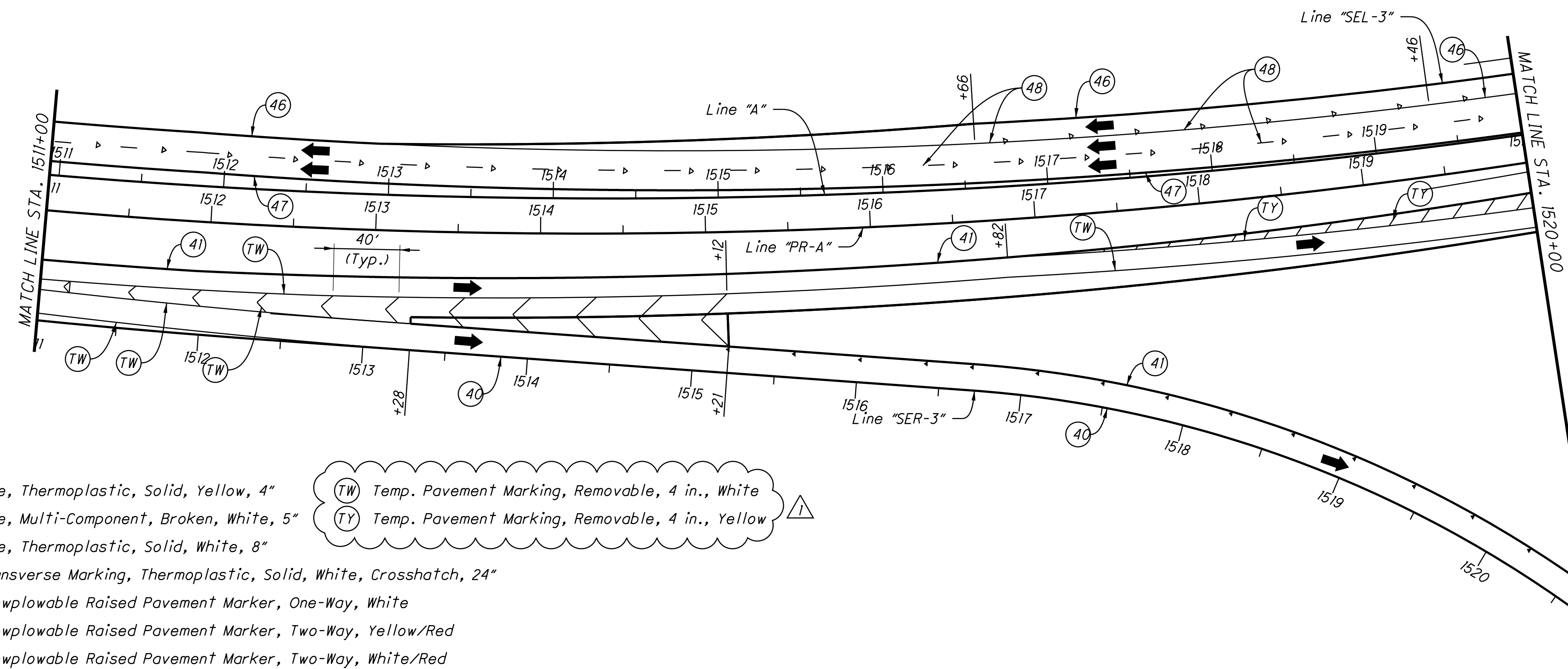
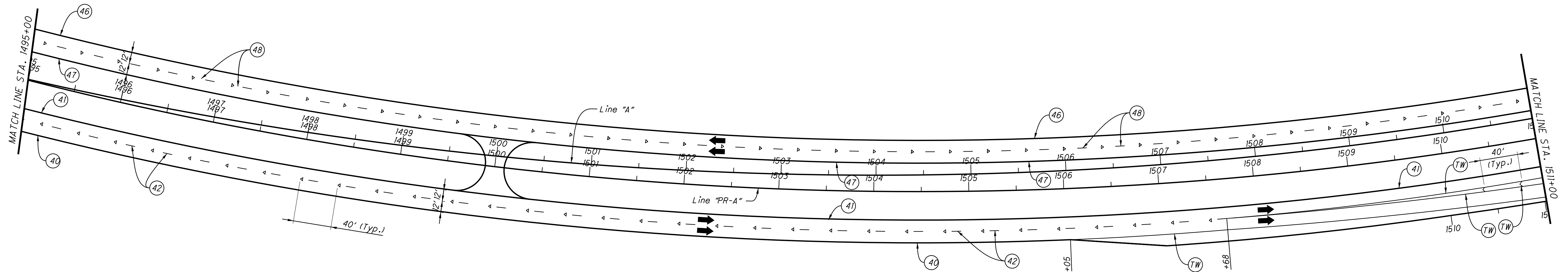


RECOMMENDED FOR APPROVAL	<i>[Signature]</i> 9/6/10	DATE
DESIGNED: MDO	DRAWN: BDM	
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
SIGNAL MODIFICATION DETAIL S.R. 37 AND VICTOR PIKE

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE SG-01
CONTRACT IR-33742	SHEETS 139-3 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:43:08 AM
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\B62750BRL_S01_S9.dgn

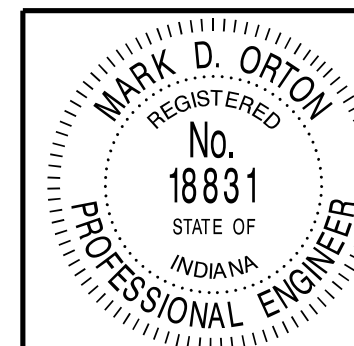


LEGEND

- | | | |
|---|---|---|
| (40) Line, Multi-Component, Solid, White, 4" | (47) Line, Thermoplastic, Solid, Yellow, 4" | (TW) Temp. Pavement Marking, Removable, 4 in., White |
| (41) Line, Multi-Component, Solid, Yellow, 4" | (48) Line, Multi-Component, Broken, White, 5" | (TY) Temp. Pavement Marking, Removable, 4 in., Yellow |
| (42) Line, Multi-Component, Broken, White, 5" | (50) Line, Thermoplastic, Solid, White, 8" | |
| (46) Line, Thermoplastic, Solid, White, 4" | (51) Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24" | |
| (44) Line, Multi-Component, Solid, White, 8" | ◀ Snowplowable Raised Pavement Marker, One-Way, White | |
| (45) Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24" | ↔ Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red | |
| | ↔ Snowplowable Raised Pavement Marker, Two-Way, White/Red | |

NOTE:
For Line "A" & "PR-A", Marking Material Types Depend on the Selected Paving Alternative. For PCCP Pavement (Depicted on NB Lanes), all Markings Shall be Multi-Component. For HMA Pavement (Depicted on SB Lanes), all Marking Shall be Thermoplastic.

Snowplowable Raised Pavement Markings Shall be Placed on I-69 Centerlines, Gore Lines and Ramp Curves as detailed in INDOT Standard Drawings and Indiana MUTCD.



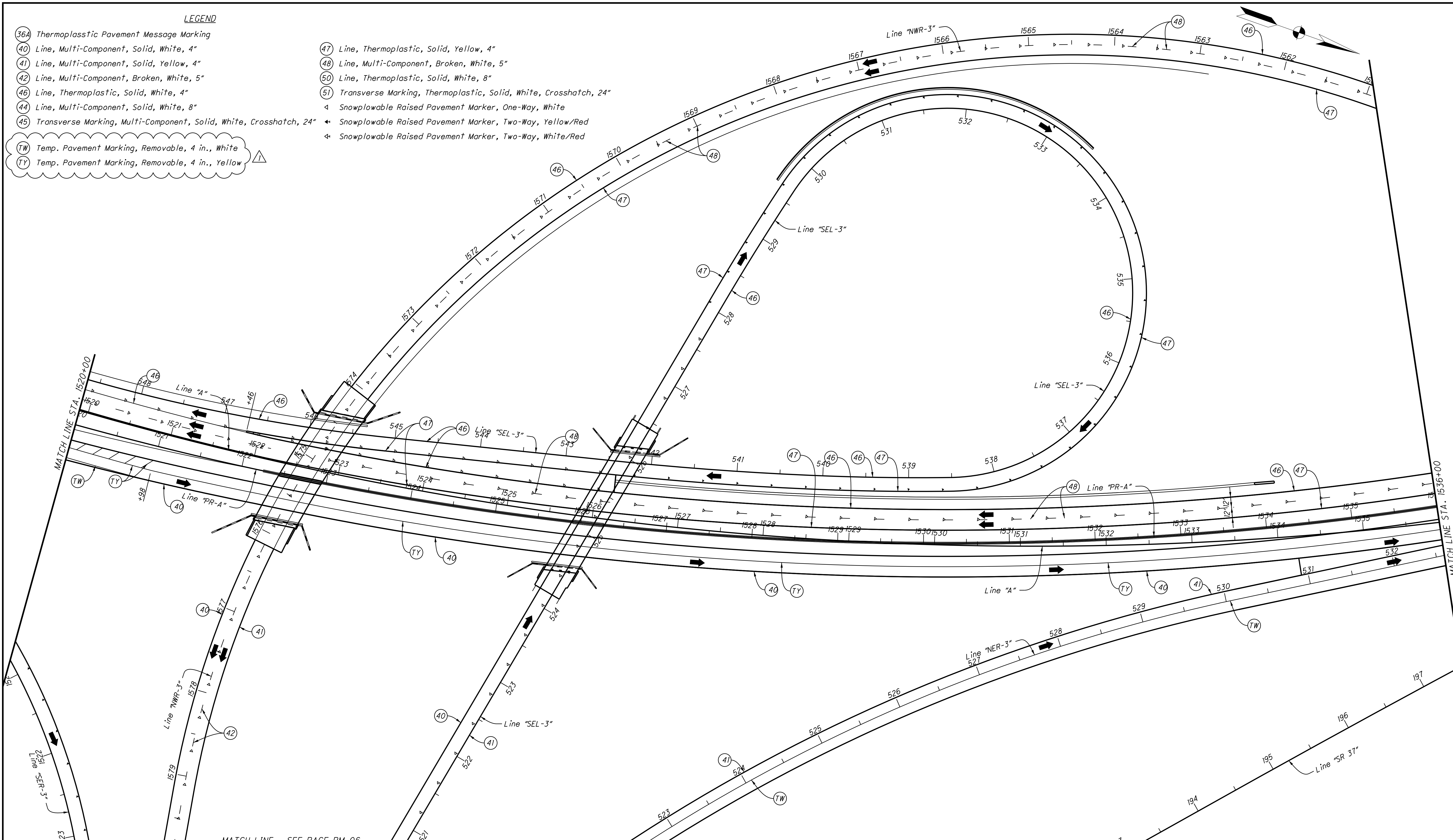
RECOMMENDED
FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

DESIGNED: MDO DRAWN: BDM
CHECKED: HCF CHECKED: MDO

**INDIANA
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS
STA. 1495+00 TO STA. 1520+00 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-02
CONTRACT IR-33742	SHEETS 141 of 173
	PROJECT 1006075

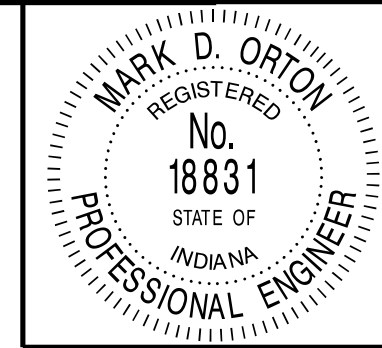


- LEGEND**
- 36A Thermoplastic Pavement Message Marking
 - 40 Line, Multi-Component, Solid, White, 4"
 - 41 Line, Multi-Component, Solid, Yellow, 4"
 - 42 Line, Multi-Component, Broken, White, 5"
 - 46 Line, Thermoplastic, Solid, White, 4"
 - 44 Line, Multi-Component, Solid, White, 8"
 - 45 Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24"
 - TW Temp. Pavement Marking, Removable, 4 in., White
 - TY Temp. Pavement Marking, Removable, 4 in., Yellow

- 47 Line, Thermoplastic, Solid, Yellow, 4"
- 48 Line, Multi-Component, Broken, White, 5"
- 50 Line, Thermoplastic, Solid, White, 8"
- 51 Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24"
- ◁ Snowplowable Raised Pavement Marker, One-Way, White
- ↔ Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red
- ↔ Snowplowable Raised Pavement Marker, Two-Way, White/Red

NOTE:
For Line "A" & "PR-A", Marking Material Types Depend on the Selected Paving Alternative. For PCCP Pavement (Depicted on NB Lanes), all Markings Shall be Multi-Component. For HMA Pavement (Depicted on SB Lanes), all Marking Shall be Thermoplastic.

Snowplowable Raised Pavement Markings Shall be Placed on I-69 Centerlines, Gore Lines and Ramp Curves as detailed in INDOT Standard Drawings and Indiana MUTCD.



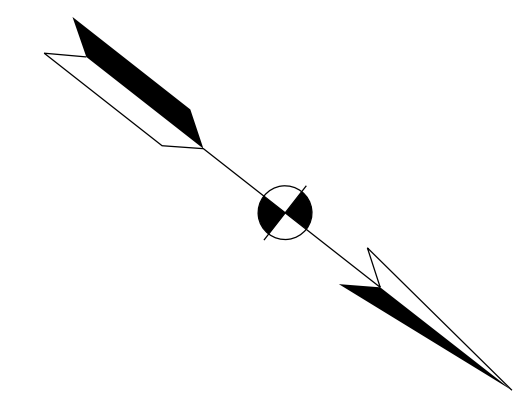
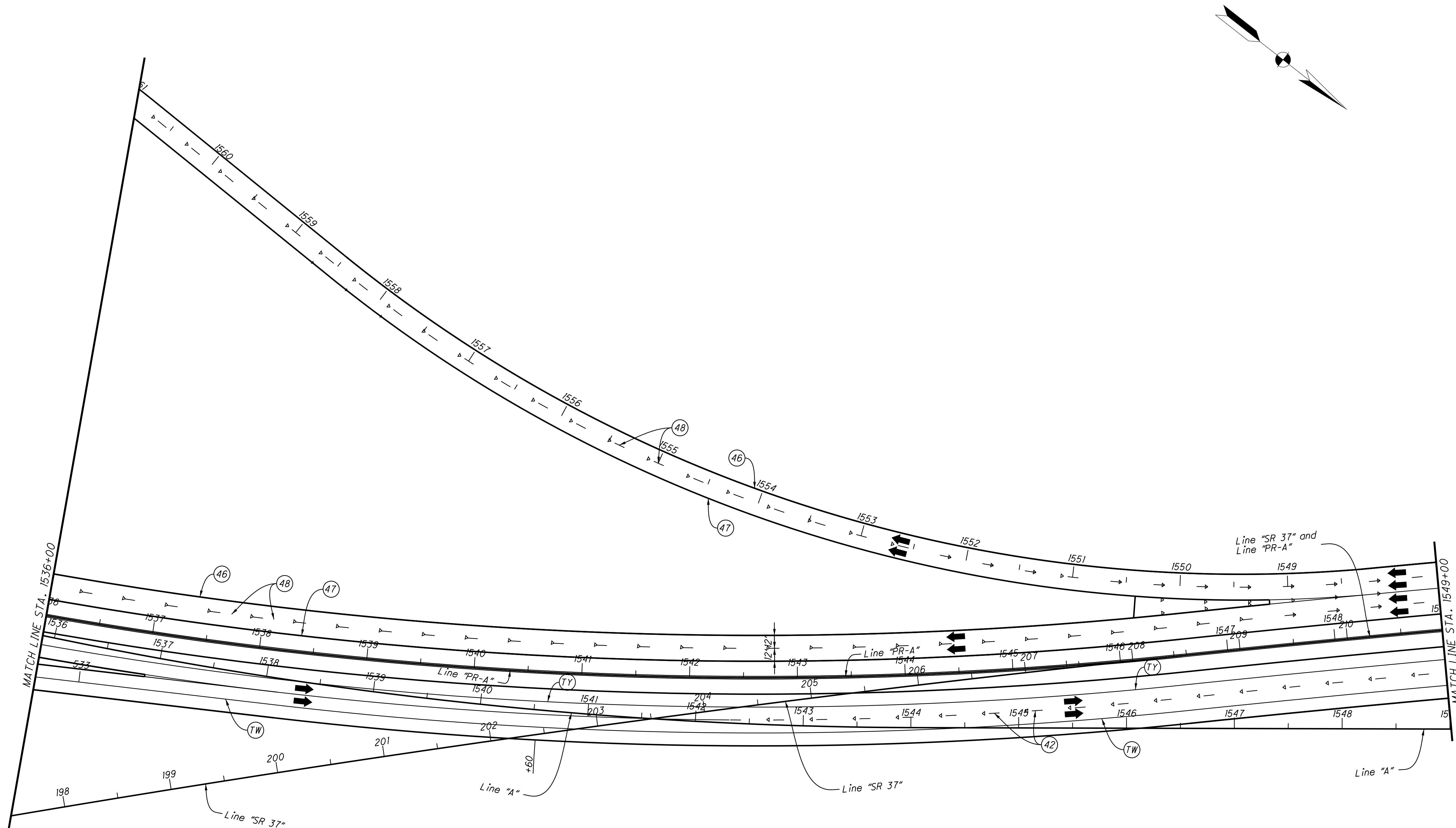
RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAILS
STA. 1520+00 TO STA. 1536+00 "PR-A"

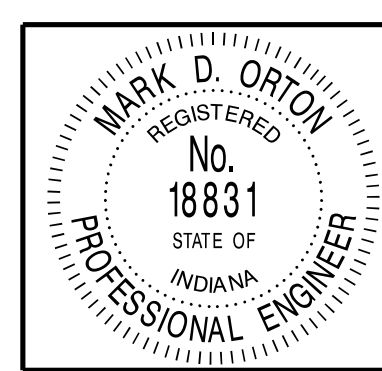
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-03
CONTRACT IR-33742	SHEETS 142 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:43:44 AM
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\25627500RI_PMO4_AE.dgn



LEGEND

- | | | |
|---|---|---|
| (36A) Thermoplastic Pavement Message Marking | (47) Line, Thermoplastic, Solid, Yellow, 4" | (TW) Temp. Pavement Marking, Removable, 4 in., White |
| (40) Line, Multi-Component, Solid, White, 4" | (48) Line, Multi-Component, Broken, White, 5" | (TY) Temp. Pavement Marking, Removable, 4 in., Yellow |
| (41) Line, Multi-Component, Solid, Yellow, 4" | (50) Line, Thermoplastic, Solid, White, 8" | |
| (42) Line, Multi-Component, Broken, White, 5" | (51) Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24" | |
| (46) Line, Thermoplastic, Solid, White, 4" | ◁ Snowplowable Raised Pavement Marker, One-Way, White | |
| (44) Line, Multi-Component, Solid, White, 8" | ↔ Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red | |
| (45) Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24" | ↔ Snowplowable Raised Pavement Marker, Two-Way, White/Red | |

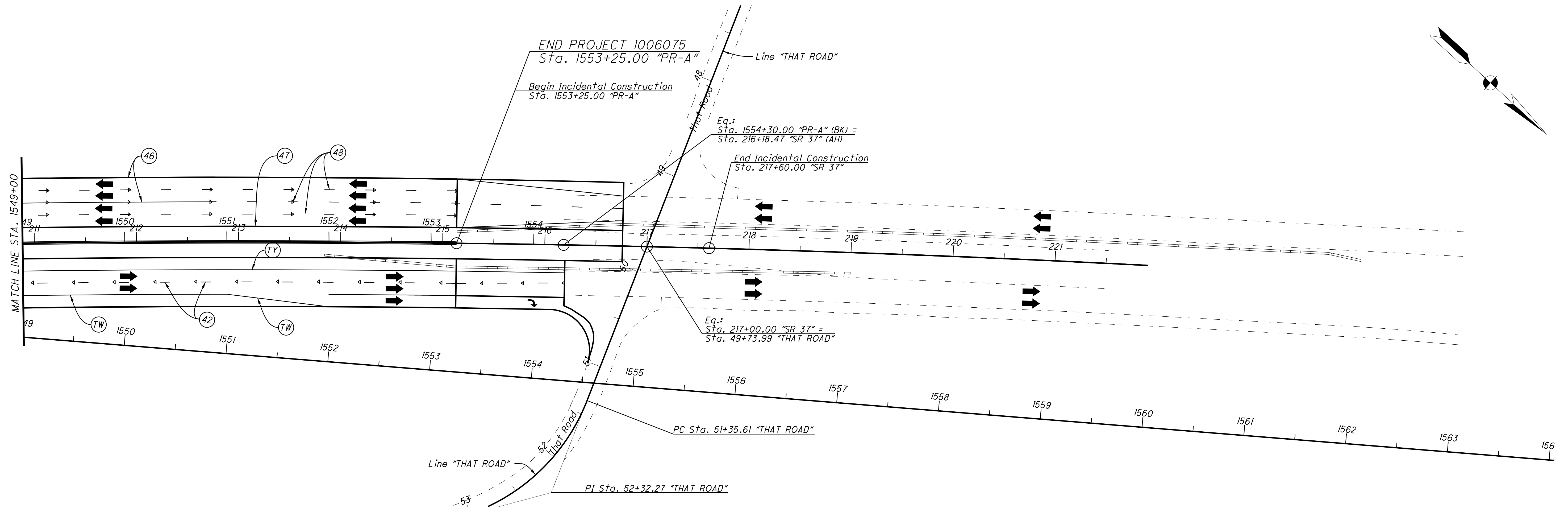


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	
DESIGNED: MDO	DRAWN: KCH
CHECKED: HCF	CHECKED: MDO

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING DETAILS	
STA. 1536+00 TO STA. 1549+00 "PR-A"	

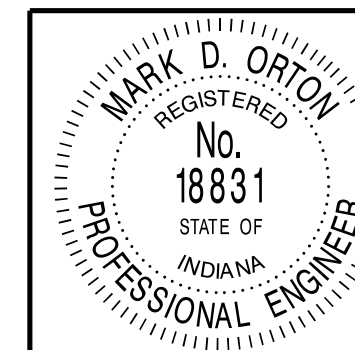
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-04
CONTRACT IR-33742	SHEETS 143 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:43:45 AM
LOCATION: R:\03141 - I-59 Section 4\Microstation\Sheet Files\25627500R1_PMO5_AE.dgn



LEGEND

- | | | |
|---|---|---|
| (36A) Thermoplastic Pavement Message Marking | (47) Line, Thermoplastic, Solid, Yellow, 4" | (TW) Temp. Pavement Marking, Removable, 4 in., White |
| (40) Line, Multi-Component, Solid, White, 4" | (48) Line, Multi-Component, Broken, White, 5" | (TY) Temp. Pavement Marking, Removable, 4 in., Yellow |
| (41) Line, Multi-Component, Solid, Yellow, 4" | (50) Line, Thermoplastic, Solid, White, 8" | |
| (42) Line, Multi-Component, Broken, White, 5" | (51) Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24" | |
| (46) Line, Thermoplastic, Solid, White, 4" | ◀ Snowplowable Raised Pavement Marker, One-Way, White | |
| (44) Line, Multi-Component, Solid, White, 8" | ◀ Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red | |
| (45) Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24" | ◀ Snowplowable Raised Pavement Marker, Two-Way, White/Red | |



RECOMMENDED FOR APPROVAL *M. D. Orton* 9/6/10
DESIGN ENGINEER DATE

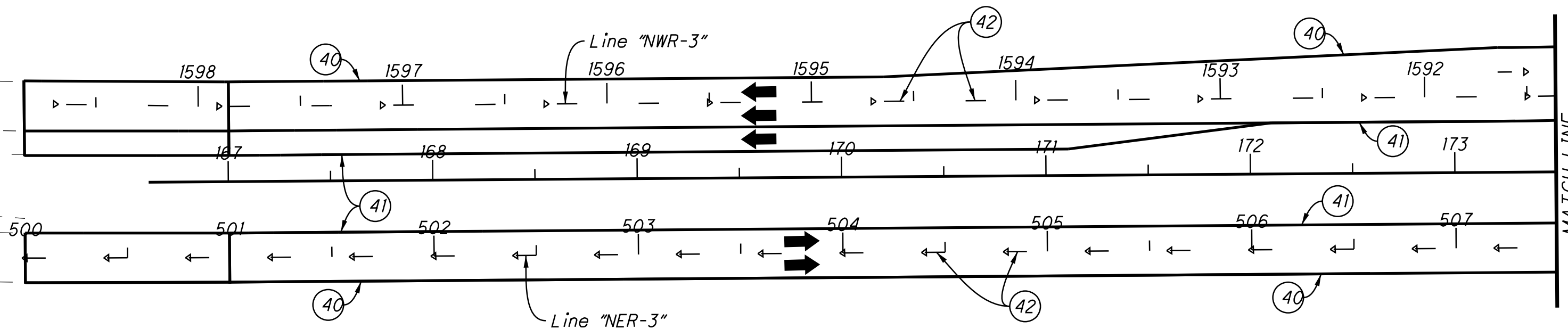
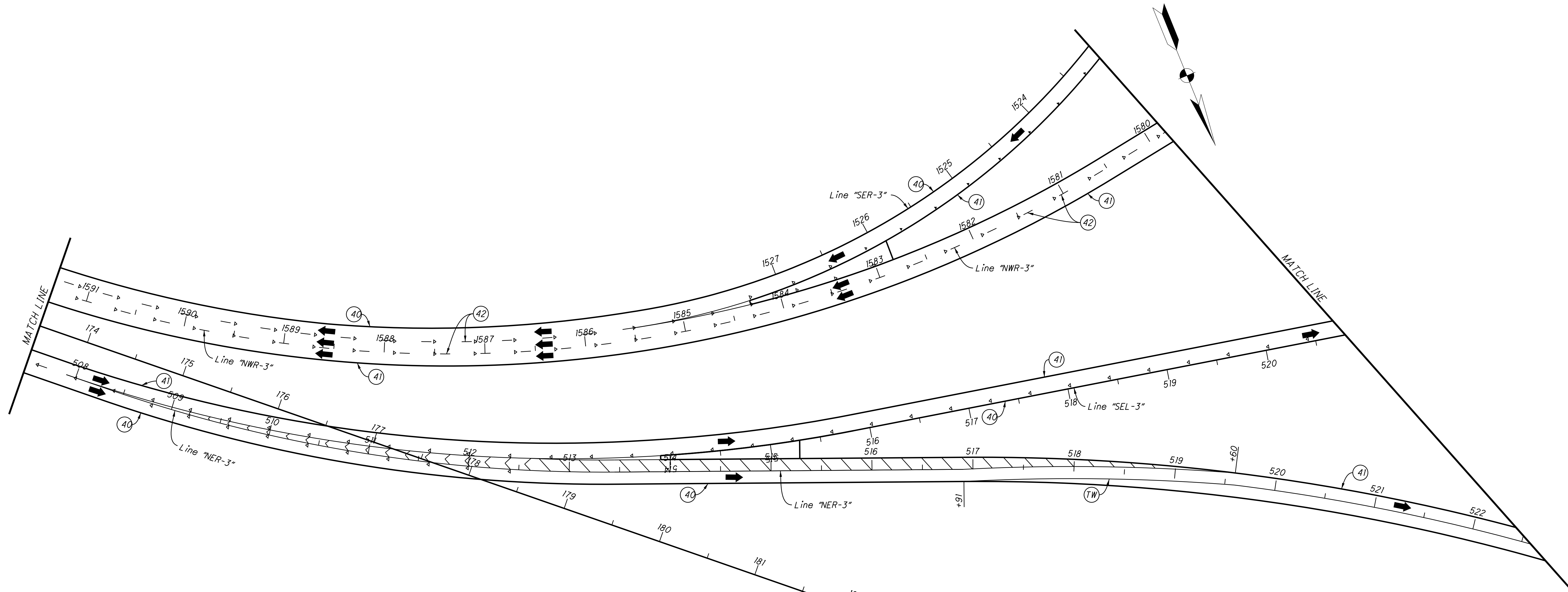
DESIGNED: MDO DRAWN: KCH
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

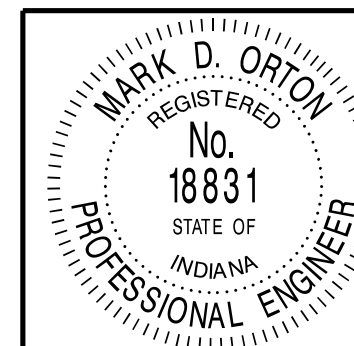
PAVEMENT MARKING DETAILS
STA. 1549+00 "PR-A" TO STA. 219+00 "SR 37"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-05
CONTRACT IR-33742	SHEETS 144 of 173
	PROJECT 1006075

DATE: 10/1/2012
TIME: 10:43:46 AM
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\B5627500RD_L_PMOB_AE.dgn



- LEGEND**
- (36A) Thermoplastic Pavement Message Marking
 - (40) Line, Multi-Component, Solid, White, 4"
 - (41) Line, Multi-Component, Solid, Yellow, 4"
 - (42) Line, Multi-Component, Broken, White, 5"
 - (46) Line, Thermoplastic, Solid, White, 4"
 - (44) Line, Multi-Component, Solid, White, 8"
 - (45) Transverse Marking, Multi-Component, Solid, White, Crosshatch, 24"
 - (TW) Temp. Pavement Marking, Removable, 4 in., White
 - (TY) Temp. Pavement Marking, Removable, 4 in., Yellow
 - (47) Line, Thermoplastic, Solid, Yellow, 4"
 - (48) Line, Multi-Component, Broken, White, 5"
 - (50) Line, Thermoplastic, Solid, White, 8"
 - (51) Transverse Marking, Thermoplastic, Solid, White, Crosshatch, 24"
 - 4 Snowplowable Raised Pavement Marker, One-Way, White
 - 4 Snowplowable Raised Pavement Marker, Two-Way, Yellow/Red
 - 4 Snowplowable Raised Pavement Marker, Two-Way, White/Red



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MDO	DRAWN: KCH	
CHECKED: HCF	CHECKED: MDO	

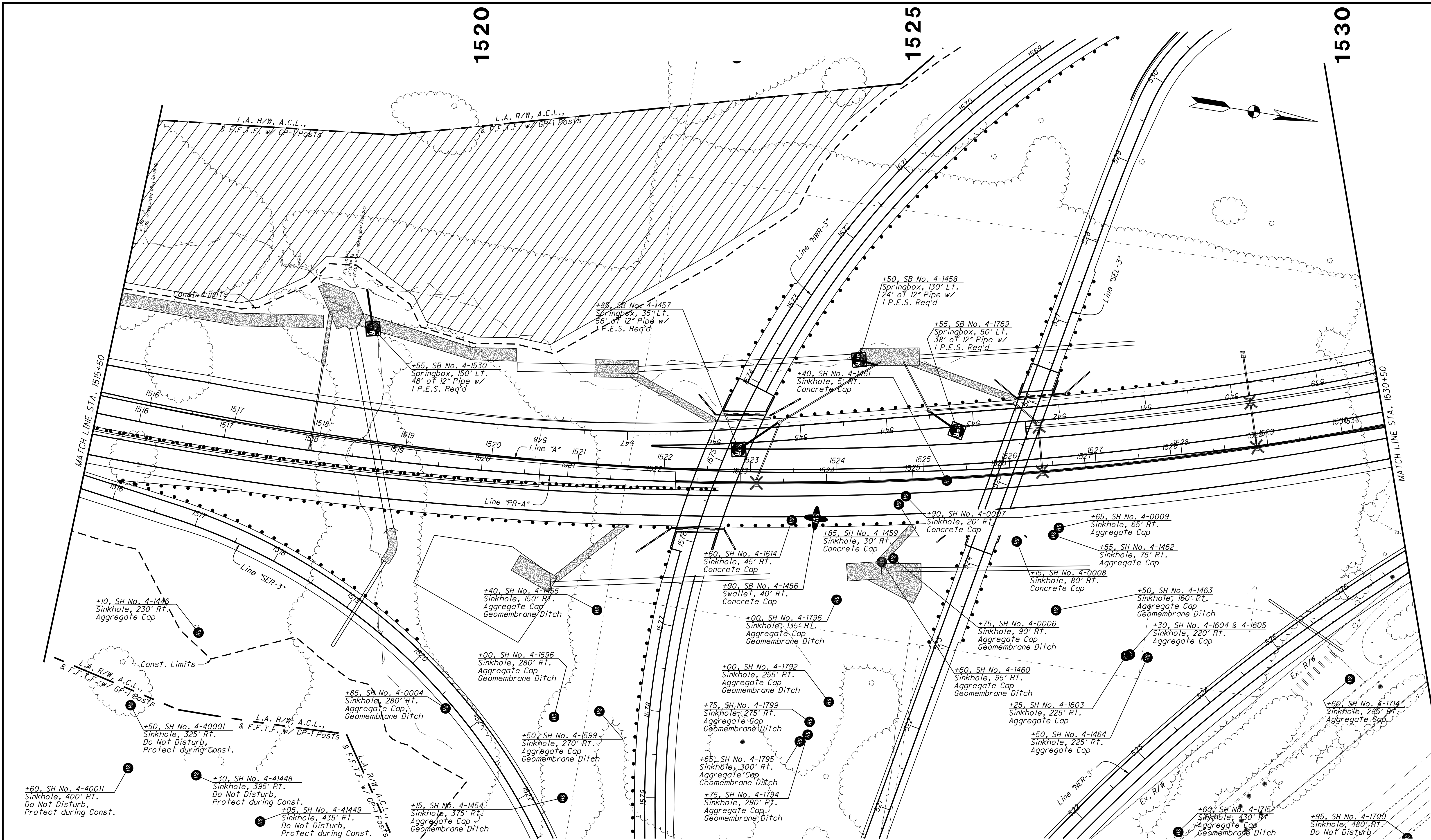
INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING DETAILS	
RAMP "NER-3", "NWR-3", "SEL-3", & "SER-3"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PM-06
CONTRACT IR-33742	SHEETS 145 of 173
	PROJECT 1006075

1520

1525

1530



LEGEND

SH Sinkhole

SPR Spring

SW Swallet

For Sinkhole Treatment Details See Sheet 100
For Spring Box Details See Sheet 103

Note:
All R/W on this sheet to be as shown.
All R/W on this sheet described from
Line "A" except as noted.
Line "PR-A" to be constructed.

MARK D. ORTON
REGISTERED
No. 18831
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *M. D. O.* 9/6/1002
DESIGN ENGINEER DATE

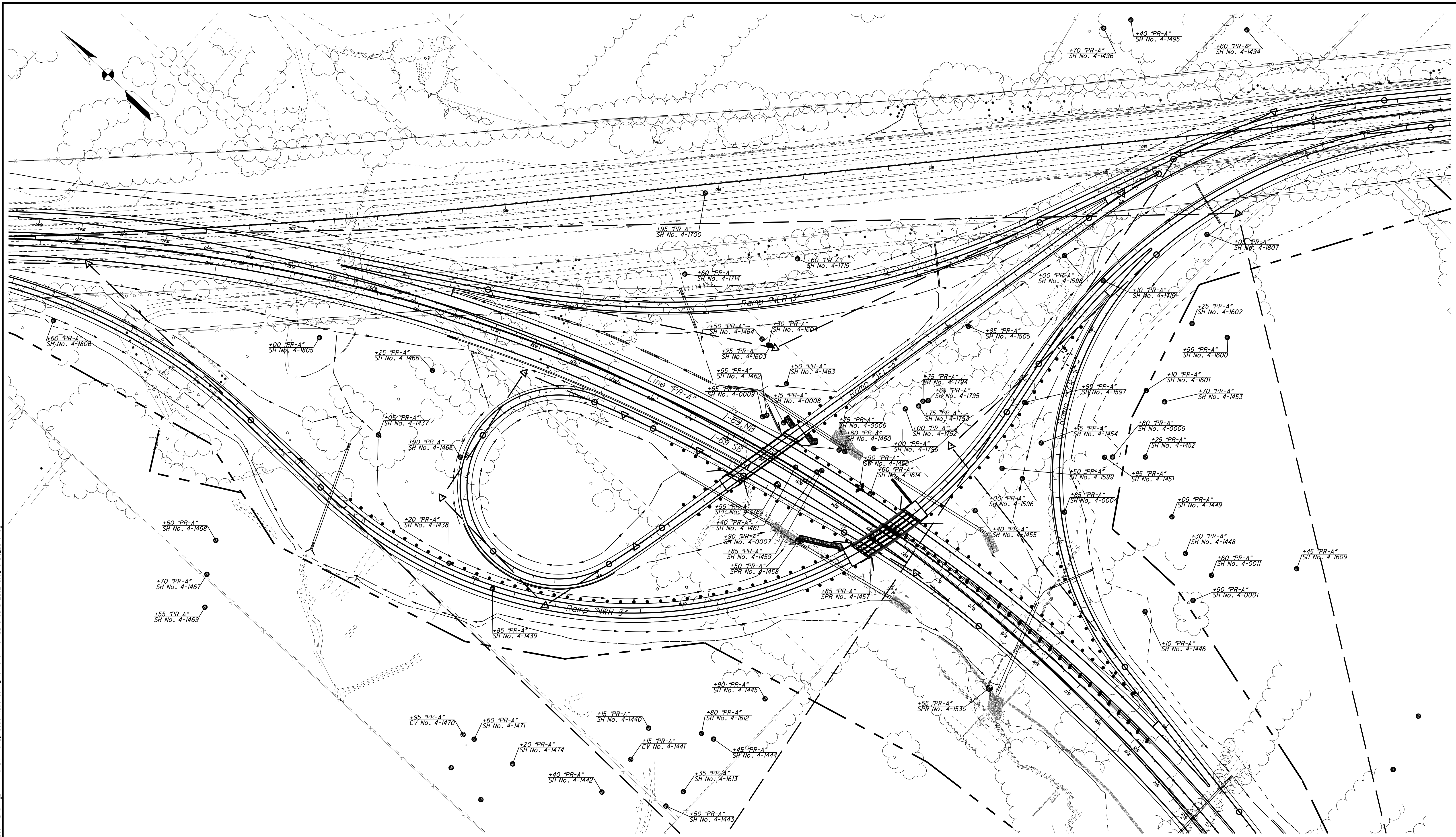
DESIGNED: MDO DRAWN: BDM
CHECKED: HCF CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

KARST DETAIL SHEET
STA. 1515+50 TO STA. 1530+50 "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE NONE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE KP-01
CONTRACT IR-33742	SHEETS 149 of 173
	PROJECT 1006075



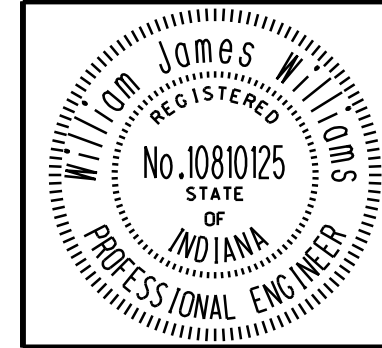


DATE: 10/3/2012
TIME: 10:28:49 AM
LOCATION: N:\Projects\25627500\Drawings\4\Transp\Cadd\Road\Sheet\Plan and Profiles\Sheet\25627500_Korst_Detail.dgn

CV Cave

SH Sinkhole

SPR Spring



RECOMMENDED FOR APPROVAL	<i>William J. Williams</i>	9/4/2012
DESIGNED: JB	DRAWN: ETD	DATE
CHECKED: RT	CHECKED: WJW	

INDIANA
DEPARTMENT OF TRANSPORTATION

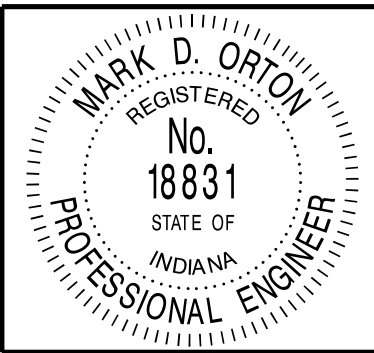
PLAN SHEET
KARST DETAIL

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 149-1 of 173
CONTRACT IR-33742	SHEETS PROJECT 1006075

DATE: 10/1/2012
TIME: 10:43:49 AM
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\B627500R1_KT01_S9.dgn

Segment 9 Karst Features									
Feature No.	Station	Offset	Type	Location	-Cut / +Fill	Existing Ground Elevation	Design Treatment	Infiltration	Proposed Ground Elevation
4-0427	1462+30	Lt. 1,290'	sinkhole	Outside ROW			No treatment. Protect during construction		
4-0164	1464+10	Rt. 280'	spring	Outside CN limits	0	611	No treatment. Protect during construction		611
4-0429	1464+25	Lt. 235'	spring	Outside CN limits	0	654	No treatment. Protect during construction		654
4-0430	1464+30	Rt. 10'	swallet	Median	37	641	Concrete cap. * Must be completed prior to earth disturbance from IR-33741		
4-0428	1464+45	Lt. 220'	spring	Outside CN limits	0	649	No treatment. Protect during construction		649
4-1520	1465+30	Rt. 45'	spring	Pavement	52	679	Springbox, pipe.		
4-0431	1466+45	Lt. 330'	spring	Outside ROW	0	615	No treatment. Protect during construction		615
4-0099	1476+30	Rt. 130'	sinkhole	Ditch	12	632	Aggregate cap. Geomembrane ditch.	low	
4-0100	1476+60	Rt. 25'	sinkhole	Pavement	12	640	Concrete cap.	low	
4-0097	1481+75	Lt. 170'	sinkhole	Outside CN limits	21	646	Aggregate cap. Geomembrane ditch.	medium	
4-0089	1483+15	Lt. 330'	cave	Outside ROW			No treatment. Protect during construction		
4-0098	1483+40	Lt. 45'	sinking stream	Pavement	22	639	Aggregate cap. Geomembrane ditch. Extended granular backfill & construction sequence.	high	
4-0088	1484+45	Lt. 390'	sinkhole	Outside ROW			No treatment. Protect during construction		
4-0090	1493+50	Lt. 255'	sinkhole	Outside ROW			No treatment. Protect during construction		
4-0084	1495+80	Lt. 80'	sinkhole	Pavement	13	683	Concrete cap.	low	
4-0086	1496+50	Rt. 380'	sinkhole	Along Bolin			No treatment. Protect during construction		
4-0092	1497+50	Lt. 150'	sinkhole	Ditch	10	681	Aggregate cap. Geomembrane ditch.	low	
4-0085	1498+50	Lt. 145'	spring	Ditch	15	691	Springbox, pipe.		
4-0094	1509+30	Rt. 145'	sinkhole	Ditch	0	704	Aggregate cap. Geomembrane ditch.	high	704
4-1608	1509+35	Rt. 155'	sinkhole	Ditch	0	704	Aggregate cap. Geomembrane ditch.	low	704
4-0003	1510+40	Lt. 105'	spring	Ditch	5	701	Springbox, pipe.		
4-1609	1515+45	Rt. 550'	sinkhole	Outside ROW	0	768	Do Not Disturb. Protect during construction.	medium	768
4-0001	1516+50	Rt. 325'	sinkhole	Outside ROW	0	743	Do Not Disturb. Protect during construction.	medium	743
4-0011	1516+60	Rt. 400'	sinkhole	Outside ROW	0	750	Do Not Disturb. Protect during construction.	low	750
4-1446	1517+10	Rt. 230'	sinkhole	In ROW		732	Aggregate cap.	low	
4-1448	1517+30	Rt. 395'	sinkhole	Outside ROW	0	747	Do Not Disturb. Protect during construction.	high	747
4-1449	1518+05	Rt. 435'	sinkhole	Outside ROW	N/A	N/A	Do Not Disturb. Protect during construction.	medium	N/A
4-1530	1518+55	Lt. 150'	spring	Outside CN limits	0	700	Springbox, pipe.		700
4-1452	1519+25	Rt. 500'	sinkhole	Outside ROW	0	748	Do Not Disturb. Protect during construction.	low	748
4-1600	1519+55	Rt. 840'	sinkhole	Outside ROW	0	764	Do Not Disturb. Protect during construction.	low	764
4-1453	1519+70	Rt. 630'	sinkhole	Outside ROW	0	748	Do Not Disturb. Protect during construction.	high	748
4-0005	1519+80	Rt. 450'	sinkhole	115' of SER Shldr	0	745	Aggregate cap.	medium	745
4-0004	1519+85	Rt. 280'	sinkhole	Ramp Shoulder	7	737	Aggregate cap. Geomembrane ditch	low	738
4-1451	1519+95	Rt. 440'	sinkhole	100' of SER Shldr	0	744	Aggregate cap.	medium	744
4-1601	1520+10	Rt. 620'	sinkhole	On\in ROW Limits	0	755	Aggregate cap.	medium	755
4-1602	1520+25	Rt. 810'	sinkhole	Outside ROW	0	766	Do not disturb. Protect during construction.	medium	766
4-1596	1521+00	Rt. 280'	sinkhole	Infield		738	Aggregate cap. Geomembrane ditch.	medium	
4-1807	1521+05	Rt. 995'	sinkhole	Ditch	-41	784	Aggregate cap. Geomembrane ditch.	low	743
4-1454	1521+15	Rt. 375'	sinkhole	Infield	-11	754	Aggregate Cap. Geomembrane ditch.	medium	743
4-1455	1521+40	Rt. 150'	sinkhole	Embankment	7	733	Aggregate cap. Geomembrane ditch .	high	740
4-1599	1521+50	Rt. 270'	sinkhole	Embankment	8	739	Aggregate cap. Geomembrane ditch.	medium	747
4-1597	1521+95	Rt. 425'	sinkhole	Ramp Shoulder	4	758	Concrete cap.	medium	759
4-1716	1522+10	Rt. 763'	sinkhole	Ramp Pavement	-11	765	Concrete cap.	high	754
4-1494	1522+60	Rt. 1440'	sinkhole	Outside ROW	0	762	Do not disturb. Protect during construction.	low	762
4-1457	1522+85	Lt. 35'	spring	Pavement	11	722	Springbox, pipe.		733
4-1445	1522+90	Lt. 490'	sinkhole	Outside ROW	0	748	Do not disturb. Protect during construction.	medium	748
4-1598	1523+00	Rt. 760'	sinkhole	Loop Embankment	-4	766	Aggregate cap. Geomembrane ditch.	medium	762
4-1613	1523+35	Lt. 775'	sinkhole	Outside ROW	0	730	Do not disturb. Protect during construction.	medium	730
4-1444	1523+45	Lt. 635'	sinkhole	Outside ROW	0	743	Do not disturb. Protect during construction.	medium	743
4-1443	1523+50	Lt. 825'	sinkhole	Outside ROW	0	728	Do not disturb. Protect during construction.	high	728
4-1614	1523+60	Rt. 45'	sinkhole	Shoulder	1	736	Concrete cap.	medium	737
4-1795	1523+65	Rt. 300'	sinkhole	Infield		759	Aggregate cap. Geomembrane ditch.	high	
4-1793	1523+75	Rt. 275'	sinkhole	Infield		757	Aggregate cap. Geomembrane ditch.	high	
4-1794	1523+75	Rt. 290'	sinkhole	Infield		758	Aggregate cap. Geomembrane ditch .	high	
4-1612	1523+80	Lt. 640'	sinkhole	Outside ROW	0	742	Do not disturb. Protect during construction.	low	742
4-1505	1523+85	Rt. 500'	sinkhole	Embankment		749	Aggregate cap. Geomembrane ditch.	high	742

Segment 9 Karst Features									
Feature No.	Station	Offset	Type	Location	-Cut / +Fill	Existing Ground Elevation	Design Treatment	Infiltration	Proposed Ground Elevation
4-1456	1523+90	Rt. 40'	swallet	Shoulder	2	735	Concrete cap.		737
4-1792	1524+00	Rt. 255'	sinkhole	Infield		757	Aggregate cap. Geomembrane ditch.	medium	
4-1796	1524+00	Rt. 135'	sinkhole	Infield		745	Aggregate cap. Geomembrane Ditch.	medium	
4-1495	1524+40	Rt. 1305'	sinkhole	Outside ROW	0	757	Do not disturb. Protect during construction.	low	757
4-1458	1524+50	Lt. 130'	spring	Embankment	? -6	724	Springbox and pipe.		718
4-1460	1524+60	Rt. 95'	sinkhole	Infield	-6	747	Aggregate cap. Geomembrane ditch	medium	741
4-1496	1524+70	Rt. 1255'	sinkhole	Outside ROW	0	764	Do not disturb. Protect during construction.	high	764
4-0006	1524+75	Rt. 90'	sinkhole	Infield	-5	745	Aggregate cap. Geomembrane ditch.	high	740
4-1459	1524+85	Rt. 30'	sinkhole	Pavement	-6	745	Concrete cap.	low	739
4-0007	1524+90	Rt. 20	sinkhole	Pavement	-4	743	Concrete cap.	medium	739
4-1440	1525+15	Lt. 695'	sinkhole	Outside ROW	0	741	Do not disturb. Protect during construction.	medium	741
4-1441	1525+15	Lt. 780'	cave	Outside ROW	0	740	Do not disturb. Protect during construction.		740
4-1442	1525+40	Lt. 880'	sinkhole	Outside ROW	0	733	Do not disturb. Protect during construction.	medium	733
4-1461	1525+40	Rt. 5'	sinkhole	Concrete Median	-5	744	Concrete cap.	low	739
4-1769	1525+55	Lt. 50'	spring	Shoulder	5	733	Springbox and pipe.		738
4-0008	1526+15	Rt. 80'	sinkhole	Embankment	-15	751	Concrete cap.	low	736
4-1463	1526+50	Rt. 160'	sinkhole	Infield		759	Aggregate cap. Geomembrane ditch.	high	
4-1462	1526+55	Rt. 75'	sinkhole	Embankment	-11	749	Aggregate cap.	medium	738
4-0009	1526+65	Rt. 65'	sinkhole	Embankment	-8	749	Aggregate cap.	low	741
4-1603	1527+25	Rt. 225'	sinkhole	Infield		763	Aggregate cap.	low	
4-1604	1527+30	Rt. 220'	sinkhole	Infield		762	Aggregate cap.	low	
4-1605	1527+30	Rt. 220'	sinkhole	Infield		762	Aggregate cap.	medium	
4-1464	1527+50	Rt. 225'	sinkhole	Infield		760	Aggregate cap.	medium	
4-1715	1527+60	Rt. 430	sinkhole	Ramp Backslope	-7	780	Aggregate cap. Geomembrane ditch.	high	773
4-1474	1528+20	Lt. 920'	sinkhole	Outside ROW	0	741	Do not disturb. Protect during construction.	high	741
4-1471	1529+60	Lt. 910'	sinkhole	Outside ROW	0	738	Do not disturb. Protect during construction.	low	738
4-1714	1529+60	Rt. 285'	sinkhole	Backslope. NER	-17	782	Aggregate cap.	high	765
4-1470	1529+95	Lt. 910'	cave	Outside ROW	0	739	Do not disturb. Protect during construction.		739
4-1700	1529+95	Rt. 480'	sinkhole	Ex. SB SR 37 Pav't	0	767	No treatment high fill.	high	767
4-1439	1530+85	Lt. 570'	sinkhole	NWR Pav't	4	750	Concrete cap.	medium	754
4-1438	1532+20	Lt. 550'	sinkhole	NWR Shldr	4	751	Concrete cap.	medium	755
4-1465	1532+90	Rt. 310'	sinkhole	Ramp, pavement ?		763	Concrete cap.	medium	
4-1466	1534+25	Lt. 135'	sinkhole	Infield		755	Aggregate cap.	low	
4-1437	1535+05	Lt. 320'	sinkhole	Infield		743	Aggregate cap.	medium	
4-1805	1537+10	Lt. 135'	sinkhole	Infield		746	Aggregate cap. Geomembrane ditch.		
4-1469	1538+55	Lt. 805'	sinkhole	Outside ROW	0	737	Do not disturb. Protect during construction.	low	737
4-1468	1538+60	Lt. 645'	sinkhole	Outside ROW	0	743	Do not disturb. Protect during construction.	low	743
4-1467	1538+70	Lt. 730'	sinkhole	Outside ROW	0	744	Do not disturb. Protect during construction.	high	744
4-1806	1543+60	Lt. 185'	sinkhole	Embankment	-1	766	Aggregate cap. Geomembrane ditch.	low	765



RECOMMENDED FOR APPROVAL <i>Mark D. Orton</i> 9/6/10 DESIGN ENGINEER DATE	
DESIGNED: <u>MDO</u>	DRAWN: <u>BDM</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

INDIANA DEPARTMENT OF TRANSPORTATION
KARST FEATURE TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE KT-01
CONTRACT IR-33742	SHEETS 150 of 173 PROJECT 1006075



DATE: 10/1/2012
TIME: 10:44:00 AM
LOCATION: R:\05141 - I-59 Section 4\Microstation\Sheet Files\B5627500RD.MDSOL_A2.dgn

Line	Station	Location			Monument Type					Offset
		Left	Center	Right	A	B	C	D	Section Corner	
"A"										
SECTION LINE	1462+75.21	X					1			259.75'
SECTON LINE	1465+35.95			X			1			365.00'
PC	1471+42.94		X				1			
SECTION LINE	1476+50.00			X			1			395.59'
SECTION LINE	1478+71.54			X			1			290.00'
PI	1478+85.59	X						1		34.40'
PT	1486+23.99		X				1			
PC	1494+13.78		X				1			
"PR-A"										
PC	1495+09.39		X				1			
POC	1504+00.00		X				1			
POC	1514+00.00		X				1			
SECTION LINE	1521+31.53			X			1			320.00'
SECTION LINE	1522+28.88	X					1			436.09'
POC	1524+00.00		X					1		
PI	1525+66.33			X			1			1076.98'
POC	1534+00.00		X					1		
POC	1544+00.00		X					1		
PCC	1546+58.04		X					1		
SECTION LINE	1546+93.76	X					1			170.04'
SECTION LINE	1550+66.29			X			1			175.00'
POC	1553+25.00		X					1		
"BOLIN LANE"										
POT	17+30.00		X			1				
POT	22+00.00		X			1				
"PR-GLENVIEW DRIVE"										
POT	2+00.00		X			1				
PC	3+94.76		X			1				
PI	4+92.15	X					1			
PT	5+80.15		X			1				
POT	6+31.15		X			1				
POT	13+60.88		X			1				
RAMP "SER-3"										
PC	1509+99.31		X					1		
PI	1511+18.54			X				1		1.42'
PT	1512+37.73		X					1		
PC	1516+69.44		X					1		
PI	1523+26.60	X					1			256.66'
PT	1527+31.34		X					1		
RAMP "SEL-3"										
PC	513+90.65		X					1		
PI	514+87.32			X				1		3.11'
PT	515+83.72		X					1		
PC	528+16.76		X					1		
PI	528+91.78	X						1		0.98'
PCC	529+66.76		X					1		
PI	531+42.68	X						1		62.80'
PCC	532+61.63		X					1		
PI	534+37.55	X					1			62.80'
PCC	535+56.50		X					1		
PI	537+32.42	X					1			62.80'
PCC	538+51.37		X					1		
PI	539+26.39	X						1		0.98'
PCC	540+01.37		X					1		
PI	541+20.73	X						1		1.91'
PT	542+40.00		X					1		
PC	545+09.91		X					1		
PI	547+02.37	X						1		9.12'
PT	548+93.68		X					1		

Line	Station	Location			Monument Type					Offset
		Left	Center	Right	A	B	C	D	Section Corner	
RAMP "NWR-3"										
POT	1548+30.51		X					1		
PC	1548+44.80		X					1		
PI	1553+72.24	X					1			100.77'
PT	1558+49.08		X				1			
PC	1560+75.66		X					1		
POC	1570+00.00		X					1		
PT	1579+14.88		X					1		
PC	1580+50.32		X					1		
PI	1586+42.14			X				1		133.02'
PT	1591+55.78		X					1		
RAMP "NER-3"										
POT	500+00.00		X					1		
PI	501+00.00		X					1		
PC	508+30.76		X					1		
PI	510+90.32			X			1			22.29'
PT	513+44.78		X					1		
PC	516+90.47		X					1		
PI	523+75.16	X					1			111.32'
PT	530+12.09		X					1		
POC	533+08.07		X					1		
"SR 37"										
POT	166+61.03		X					1		
SECTION LINE	172+84.18	X					1			227.07'
SECTION LINE	173+58.80			X			1			151.64'
POT	173+71.20		X					1		
SECTION CORNER	175+04.04			X					1	29.03'
SECTION LINE	176+09.97			X			1			150.00'
"PR-SR 37"										
PC	1173+71.20		X					1		
PI	1179+00.12			X			1			87.23'
SECTION LINE	1180+74.43	X					1			224.36'
PT	1183+91.10		X					1		
Total					0	7	28	47	1	

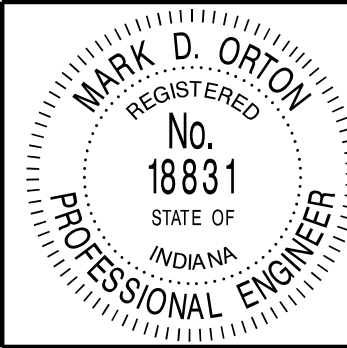
* Type B Monuments Shall Be Used With The HMA Pavement Alternate

R/W Marker Table			
Location Station	Offset (ft.)		Quantity Each
	Left	Right	
"A"			
1493+65.00		98	1
"PR-Glenview Drive"			
2+65.00		25	1
2+65.00		42	1
4+32.00		53	1
4+91.00		111	1
5+52.00		88	1
6+04.00		60	1
11+50.00		40	1
13+47.00		107	1
"Bolin Lane"			
22+71.00		58	1
22+66.00		9	1
22+65.00	9		1
22+61.00	45		1
TOTAL			13



RIGHT OF WAY FENCE TABLE - LEFT						
Line	Station	Offset	to	Station	Offset	Length
"A"						
1460+54.00		240		1464+85.00	294	434
1464+85.00		294		1464+72.00	67	227
1464+81.00		349		1468+09.00	67	291
1468+81.00		349		1473+57.00	245	487
1473+57.00		245		1480+57.00	245	700
1480+57.00		245		1484+58.00	300	405
1484+58.00		300		1485+75.00	300	117
1485+75.00		300		1485+75.00	227	73
1486+18.00		194		1487+90.00	200	172
1487+90.00		200		1487+90.00	230	30
1487+90.00		230		1489+35.00	230	145
1489+35.00		230		1490+35.00	280	112
1490+35.00		280		1491+60.00	264	126
1491+60.00		264		1492+48.00	95	191
1492+80.00		250		1493+56.00	112	158
1492+80.00		250		1495+57.00	215	279
"PR-A"						
1495+57.00		215		1500+58.00	215	501
1500+58.00		215		1500+58.00	175	40
1500+58.00		175		1505+58.00	175	500
1505+58.00		175		1513+75.00	320	830
1513+75.00		320		1518+50.00	375	478
1518+50.00		375		1525+07.00	459	662
1525+07.00		459		1528+20.00	650	367
1528+20.00		650		1531+00.00	710	286
1531+00.00		710		1537+00.00	630	605
1537+00.00		630		1539+25.00	430	301
1539+25.00		430		1544+50.00	225	564
1544+50.00		225		1545+56.00	189	112
1545+56.00		189		1546+94.00	170	139
"SR 37"						
172+84.00		227		179+05.00	348	633
172+84.00		227		173+48.00	153	98
Total						10,063

RIGHT OF WAY FENCE TABLE - RIGHT						
Line	Station	Offset	to	Station	Offset	Length
"A"						
1461+57.00		175		1461+57.00	365	190
1461+57.00		365		1463+50.00	365	193
1463+50.00		365		1464+23.00	67	307
1467+05.00		365		1467+60.00	67	303
1467+05.00		365		1472+22.00	140	564
1472+22.00		140		1474+00.00	140	178
1474+00.00		140		1475+00.00	160	102
1475+00.00		160		1476+00.00	170	100
1476+00.00		170		1477+00.00	150	102
1477+00.00		150		1478+00.00	170	102
1478+00.00		170		1480+00.00	155	201
1480+00.00		155		1481+00.00	160	100
1481+00.00		160		1481+80.00	143	82
1482+40.00		290		1482+41.00	190	100
1482+40.00		290		1483+58.00	290	118
1483+58.00		290		1484+59.00	290	101
1484+59.00		290		1485+56.00	180	147
1485+56.00		180		1489+50.00	141	396
1489+50.00		141		1489+50.00	86	55
"PR-A"						
1495+34.00		175		1495+10.00	101	78
1495+34.00		175		1507+95.00	175	1,261
1507+95.00		175		1512+00.00	230	409
1512+00.00		230		1517+00.00	320	508
1517+00.00		320		1518+81.00	320	181
1518+81.00		320		1520+00.00	550	259
1520+00.00		550		1520+59.00	890	345
Total						6,481



RECOMMENDED FOR APPROVAL	<i>Mark D. Orton</i>	9/6/10	DATE
DESIGNED: MDO	DRAWN: BDM		
CHECKED: HCF	CHECKED: MDO		

INDIANA DEPARTMENT OF TRANSPORTATION
R/W FENCE, R/W MARKER AND MONUMENT TABLES

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE MDS-01
CONTRACT IR-33742	SHEETS 151 of 173
	PROJECT 1006075

PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE																						
LOCATION					PAVED SIDE DITCH							RIPRAP DITCH				SODDING						
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUIV. LENGTH EACH)	LUGS (8' EQUIV. LENGTH EACH)	TOTAL EQUIVALENT PAY				REVETMENT RIPRAP	CLASS 1 RIPRAP	CLASS 2 RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING	NURSERY SODDING FOR LAWNS
								TYPE														
								LFT	LFT	LFT	LFT											
Line "A"/"PR-A"																						
1462+50	1554+30	X																2720		2,720		
1462+50	1554+30			X														2720		2,720		
1462+42	1464+45			X									389	346		188				188		
1462+50	1464+64		X														479			479		
1463+22	1465+95	X											522	465		253				253		
1467+68	1470+50		X														631			631		
1467+75	1472+25			X							517			667		250				250		
1468+00	1469+75	X														201				201		
1469+75	1472+25	X										383		398		186				186		
1470+50	1485+50		X														3,354			3,354		
1472+25	1475+30			X												350				350		
1482+00	1484+75			X												316				316		
1484+75	1490+10			X							614			793		298				298		
1485+50	1493+35		X														1,755			1,755		
1487+00	1488+75	X														201				201		
1488+75	1491+50	X									316			408		153				153		
1493+10	1496+00	X									333			430		162				162		
1494+13	1500+50		X														1,424			1,424		
1495+25	1497+00			X							201			260		98				98		
1496+00	1496+50	X														58				58		
1498+50	1502+00	X									402			519		195				195		
1500+00	1501+40			X												161				161		
1500+50	1515+50		X														3,354			3,354		
1501+40	1503+25			X							213			274		103				103		
1503+25	1505+00			X												201				201		
1515+50	1522+25		X														1,510			1,510		
1512+50	1512+97			X												50				50		
1512+97	1513+07			X								14		15		6				6		
1513+07	1515+13			X												216				216		
1515+91	1518+85			X												177				177		
1520+25	1521+75	X									90											

PAVED SIDE DITCH, RIPRAP DITCH, AND SODDING SUMMARY TABLE																							
LOCATION					PAVED SIDE DITCH								RIPRAP DITCH				SODDING						NURSERY SODDING FOR LAWNS
FROM STATION	TO STATION	LEFT	MEDIAN	RIGHT	ACTUAL LENGTH	CUT OFF WALLS (8' EQUIV. LENGTH EACH)	LUGS (8' EQUIV. LENGTH EACH)	TOTAL EQUIVALENT PAY				REVETMENT RIPRAP	CLASS 1 RIPRAP	CLASS 2 RIPRAP	GEOTEXTILES	FOR PAVED SIDE DITCHES	FOR DITCHES	FOR MEDIAN	FOR SHOULDER BREAK	SODDING AT BRIDGE CONE	TOTAL SODDING		
								TYPE															
								LFT	EACH	EACH	LFT											LFT	
Line "SER-3"																							
1515+25	1518+00			X													288					288	
1520+16	1520+82			X							69			91									
1520+82	1521+90			X									188	173									
1520+83	1522+72	X										264		282									
1522+72	1524+00	X									77			120									
1524+00	1524+77	X														47					47		
1524+77	1525+90	X									68			106									
Line "NWR-3"																							
1558+43	1561+02			X								361		386									
1561+02	1562+91			X							198			261									
1562+91	1565+19			X												239					239		
1565+19	1566+01			X								143	132										
1571+91	1574+39			X								325	353										
1586+73	1594+75			X												838					838		
1554+38	1556+82	X														255					255		
1556+82	1558+01	X									125			164									
1558+01	1562+86	X										656	707	164									
1571+62	1573+05	X											225	215									
1576+13	1579+50	X										470	502										
1579+50	1583+25	X														392					392		
1583+25	1586+26	X									315		415										
1586+26	1588+17	X														200					200		
1590+72	1598+85	X														488					488		
Line "NER-3"																							
501+75	516+50			X												1,541					1,541		
521+25	525+60			X												455					455		
516+83	518+55	X									102		159										
Line "SEL-3"																							
519+62	520+99			X							144		189										
522+75	523+44			X							73												

MARK D. ORTON
REGISTERED
No.
18831
STATE OF
INDIANA
PROFESSIONAL ENGINEER

INDIANA
DEPARTMENT OF TRANSPORTATION

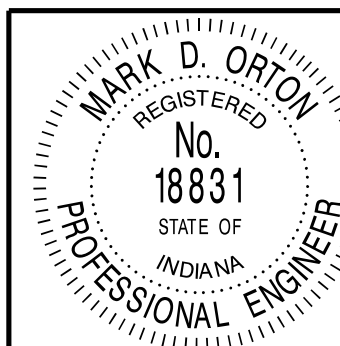
*PAVED SIDE DITCH &
 RIPRAP AND SODDING TABLE*

HORIZONTAL SCALE		BRIDGE FILE	
N/A		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		1006075	
SURVEY BOOK		PAGE	SHEETS
ELECTRONIC / AERIAL		MDS-02	152 of 173
CONTRACT		PROJECT	
IR-33742		1006075	

[illegible]

DATE: 10/1/2012
TIME: 10:44:26 AM
LOCATION: R:\05141 - 1-69 Section 4\Microstation\Sheet Files\25627500RD_AT01_S9.dgn

△ 09/25/12 - Miscellaneous revisions



RECOMMENDED
FOR APPROVAL M. D. O. K. 9/6/20
DESIGN ENGINEER DATE

DESIGNED: <u>MDO</u>	DRAWN: <u>BDM</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

INDIANA DEPARTMENT OF TRANSPORTATION

APPROACH TABLE - PCCP

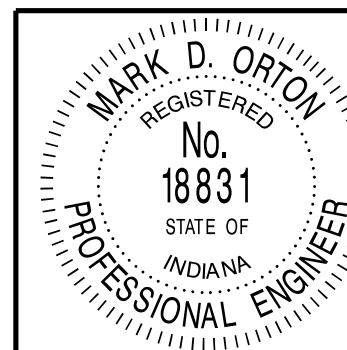
HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075

SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	AT-01	153 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

[illegible]

DATE: 10/1/2012
TIME: 10:44:33 AM
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\25627500RD-AT02_S9.dgn

1 09/25/12 - Miscellaneous revisions



RECOMMENDED
FOR APPROVAL M. D. O. K. 9/6/20
DESIGN ENGINEER DATE

DESIGNED: MDO	DRAWN: BDM
CHECKED: HCF	CHECKED: MDO

**INDIANA
DEPARTMENT OF TRANSPORTATION**

APPROACH TABLE - HMA

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075

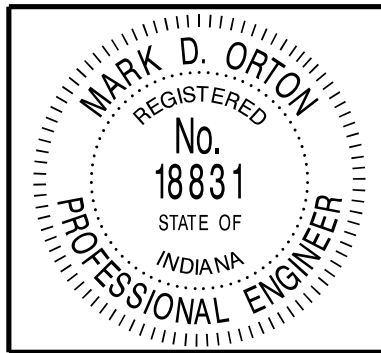
SURVEY BOOK	PAGE SHEETS	
ELECTRONIC / AERIAL	AT-02	154 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

7

DATE: 10/1/2012
TIME: 10:44:41 AM
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\B562750DRI_UD01_S9.dgn

09/25/12 - Miscellaneous revisions

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location				
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right	
	LFT	LFT																					SYS	CYS	TONS	%	
Line PR-A: Mainline Northbound Median Side																											
1462+50							667.87	N																			
1464+18		168	115.1	15.1		P.G.	663.36	Y			2	67.00	1464+18	662.00	26A	630.53			6.03		26A	1					X
1467+68							656.35	N																			
1470+00		232	158.9	20.9		P.G.	652.07	Y			2	25.00	1470+00.00	648.93			910	648.43									
1470+00							652.07	N																			
1473+00		300	205.5	27.0		-1.40%	647.88	Y			2	25.00	1473+00.00	646.91			911	646.41									
1473+00							647.88	Y			2	25.00	1473+00.00	646.91			911	646.41									
1476+00		300	205.5	27.0		0.03%	647.98	N																			
1476+00							647.98	Y			2	25.00	1476+00.00	649.23			912	648.73									
1479+00		300	205.5	27.0		P.G.	652.52	N																			
1479+00							652.52	Y			2	62.00	1479+00.00	655.00	27	631.06			5.58		27	1					X
1482+00		300	205.5	27.0		P.G.	661.25	N																			
1482+00							661.25	Y			2	25.00	1482+00.00	665.65			913	665.15									
1485+00		300	205.5	27.0		P.G.	670.97	N																			
1485+00							670.97	Y			2	62.00	1485+00.00	674.00	28	647.40			5.58		28	1					X
1488+00		300	205.5	27.0		P.G.	680.01	N																			
1488+00							680.01	Y			2	25.00	1488+00.00	683.79			914	683.29									
1489+50		150	102.8	13.5		P.G.	684.20	N																			
1489+50							684.20	Y			2	60.00	1489+50.00	686.00	29	678.03			5.40		29	1					X
1493+35		385	263.7	34.7		P.G.	700.60	N																			
1495+00							700.20	Y			2	25.00	1495+00.00	699.92			916	699.42									
1497+00		200	137.0	18.0		P.G.	701.07	N																			
1497+00							701.07	Y			2	67.00	1497+00.00	700.75	30	698.75			6.03		30	1					X
1500+50		350	239.8	31.5		2.44%	709.62	N																			
1500+50							709.62	Y			2	25.00	1500+50.00	709.45			918	708.95									
1503+00		250	171.3	22.5		0.09%	709.84	N																			
1503+00							709.84	Y			2	67.00	1503+00.00	710.97	31	708.97			6.03		31	1					X
1506+00		300	205.5	27.0		P.G.	712.62	N																			
1506+00							712.62	Y			2	25.00	1506+00.00	713.39			919	712.89									
1510+00		400	274.0	36.0		0.97%	715.06	N																			
1510+00							715.06	N																			
1512+00		200	137.0	18.0		-0.20%	714.66	Y			2	25.00	1512+00.00	714.50			920	714.00									
1512+00							714.66	Y			2	25.00	1512+00.00	714.50			920	714.00									
1514+00		200	137.0	18.0			716.86	N																			
1514+00							716.86	Y			2	130.00	1514+00.00	716.14	32	714.64			11.70		32	1					X
1518+00		400	274.0	36.0		1.00%	720.86	N																			
1518+00							720.86	Y			2	20.00	1518+00.00	720.63			921	720.13	1.80								
1522+00		400	274.0	36.0		1.31%	726.08	N																			



RECOMMENDED FOR APPROVAL		<i>M. D. Orton</i> 9/6/10 DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: BDM		
CHECKED: HCF	CHECKED: MDO		

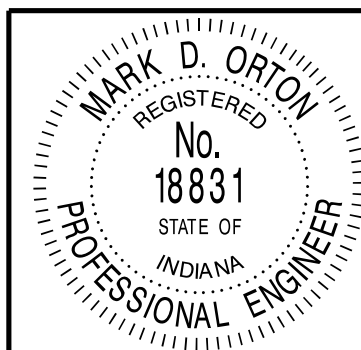
INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE I-69 - NORTHBOUND

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-01
CONTRACT IR-33742	SHEETS 155 of 173 PROJECT 1006075

[illegible]

DATE: 10/1/2012
TIME: 10:44:52 AM
LOCATION: R:\05141 - 1-69 Section 4\Microstation\Sheet Files\25627500RD_UD01_S9.dgn

1 09/25/12 - Miscellaneous revisions



RECOMMENDED
FOR APPROVAL M. D. O. K. 9/6/20
DESIGN ENGINEER DATE

DESIGNED: <u>MDO</u>	DRAWN: <u>BDM</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE
I-69 - NORTHBOUND

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1006075

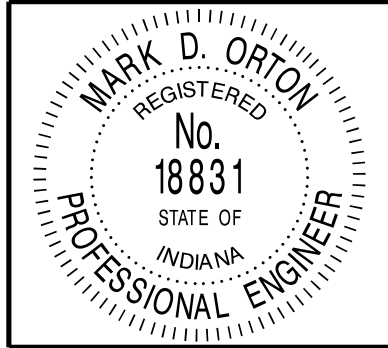
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-02	156 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

1

DATE: 10/1/2012
TIME: 10:45:01 AM
LOCATION: R:\05141 - I-69 Section 4\MicroStation\Sheet Files\B62750DR1 UD01.S9.dgn

09/25/12 - Miscellaneous revisions

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS					Remarks	
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector²	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location				
	4"	6"																					Outside Left	Median Left	Median Right		Outside Right
Line PR-A: Mainline Northbound Outside Shoulder																											
1462+50							667.60	N																			
1464+18		168	115.1	15.1		P.G.	663.10	Y			2	28	1464+18	662.00	1A	630.53			2.52		1A	1A					X
1467+68							655.47	N																			
1470+00		232	158.9	20.9		P.G.	649.25	Y			2	28	1470+00.00	648.00	1	624.92			2.52		1	1					X
1470+00							649.25	N																			
1473+00		300	205.5	27.0		-0.94%	646.44	Y			2	28	1473+00.00	646.00	2	633.92			2.52		2	1					X
1473+00							646.44	Y			2	28	1473+00.00	646.00	2	633.92			2.52		2	1					X
1476+00		300	205.5	27.0		0.77%	648.76	N																			
1476+00							648.76	Y			2	28	1476+00.00	648.00	3	627.92			2.52		3	1					X
1479+00		300	205.5	27.0		P.G.	655.52	N																			
1479+00							655.52	Y			2	30	1479+00.00	655.00	4	631.06			2.70		4	1					X
1482+00		300	205.5	27.0		P.G.	665.18	N																			
1482+00							665.18	Y			2	30	1482+00.00	664.50	5	639.00			2.70		5	1					X
1485+00		300	205.5	27.0		P.G.	674.77	N																			
1485+00							674.77	Y			2	30	1485+00.00	673.00	6	647.40			2.70		6	1					X
1488+00		300	205.5	27.0		P.G.	684.11	N																			
1488+00							684.11	N			2	28		683.50	7	666.55			2.52		7	1					X
1489+50		150	102.8	13.5		P.G.	682.74	Y					1489+50.00	2.00													
1489+50							682.74	Y			2	28	1489+50.00	686.00	8	674.11			2.52		8	1					X
1493+35		385	263.7	34.7		P.G.	699.22	N																			
1493+35							699.22	N																			
1495+00							698.79	Y			2	35	1495+00.00	698.00	9	683.20			3.15		9	1					X
1497+00		200	137.0	18.0		P.G.	705.27	N																			
1497+00							705.27	Y			2	35	1497+00.00	704.00	10	698.75			3.15		10	1					X
1500+50		350	239.8	31.5		P.G.	709.11	N																			
1500+50							709.11	Y			2	47	1500+50.00	708.00	11	696.10			4.23		11	1					X
1503+00		250	171.3	22.5		P.G.	713.03	N																			
1503+00							713.03	Y			2	48	1503+00.00	710.97	12	708.97			4.32		12	1					X
1506+00		300	205.5	27.0		P.G.	715.28	N																			
1506+00							715.28	Y			2	48	1506+00.00	714.83	13	713.33			4.32		13	1					X
1508+00		200	137.0	18.0		0.40%	716.08	N																			
1508+00							716.08	Y			2	49	1508+00.00	715.76	14	714.76			4.41		14	1					X
1512+00		400	274.0	36.0		0.20%	716.88	N																			
1512+00							716.88	Y			2	65	1512+00.00	713.32	15	711.32			5.85		15	1					X
1514+00		200	137.0	18.0		0.48%	717.83	N																			
1514+00							717.83	Y			2	98	1514+00.00	716.82	16	714.82			8.82		16	1					X
1518+00		400	274.0	36.0		P.G.	722.54	N																			
1518+00							722.54	Y			2	30	1518+00.00	722.28	17	721.28			2.70		17	1					X
1522+00		400	274.0	36.0		P.G.	730.86	N																			



RECOMMENDED FOR APPROVAL		<i>M. D. Orton</i>		9/6/10	
		DESIGN ENGINEER		DATE	
DESIGNED: MDO	DRAWN: BDM				
CHECKED: HCF	CHECKED: MDO				

INDIANA DEPARTMENT OF TRANSPORTATION	
UNDERDRAIN TABLE I-69 - NORTHBOUND	

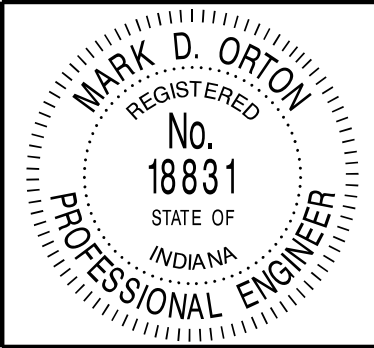
HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-03
CONTRACT IR-33742	SHEETS 157 of 173
	PROJECT 1006075

1

DATE: 10/1/2012
TIME: 10:45:11 AM
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\B62750DR1 UD01_S9.dgn

UNDERDRAIN TABLE

UNDERDRAIN TABLE																												
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks	
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector²	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location					
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right		
																												LFT
Line PR-A: Mainline Northbound Outside Shoulder																												
1522+00							730.86	Y			2	38	1522+00.00	727.55	18	725.55				3.42		18	1				X	
1526+00		400	274.0	36.0		P.G.	739.34	N																				
1526+00							739.34	Y			2	30	1526+00.00	736.20	19	734.20				2.70		19	1				X	
1529+00		300	205.5	27.0		P.G.	745.70	N																				
1529+00							745.70	Y			2	30	1529+00.00	742.63	20	740.63				2.70		20	1				X	
1533+00		400	274.0	36.0		P.G.	754.18	N																				
1533+00							754.18	Y			2	70	1533+00.00	751.39	21	749.39				6.30		21	1				X	
1536+00		300	205.5	27.0		P.G.	760.54	N																				
1536+00							760.54	Y			2	70	1536+00.00	759.09	22	757.09				6.30		22	1				X	
1539+00		300	205.5	27.0		P.G.	766.82	N																				
1539+00							766.82	Y			2	57	1539+00.00	763.97	23	761.97				5.13		23	1				X	Sta. 1539+00 in Rock Cut
1542+00		300	205.5	27.0		P.G.	770.99	N																				
1542+00							770.99	Y			2	57	1542+00.00	762.77	24	760.77				5.13		24	1				X	Sta. 1542+00 in Rock Cut
1546+00		400	274.0	36.0		P.G.	772.73	N																				
1546+00							772.73	N																				
1550+00		400	274.0	36.0		P.G.	768.00	Y			2	41	1550+00.00	766.00	25	764.00				3.69		25	1				X	Sta. 1546+00 in Rock Cut
1550+00							768.00	Y			2	22	1550+00.00	768.40	26	766.40				2.00		26	1				X	Sta. 1550+00 in Rock Cut
1554+30		430	294.6	38.7		P.G.	768.24	N																				
Sub Total	-	8,665.00	5935.5	779.9	-						56	1156							104.06	-		27.00						



RECOMMENDED FOR APPROVAL		<i>Mark D. Orton</i> 9/6/10 DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: BDM		
CHECKED: HCF	CHECKED: MDO		

INDIANA DEPARTMENT OF TRANSPORTATION	
UNDERDRAIN TABLE I-69 - NORTHBOUND	

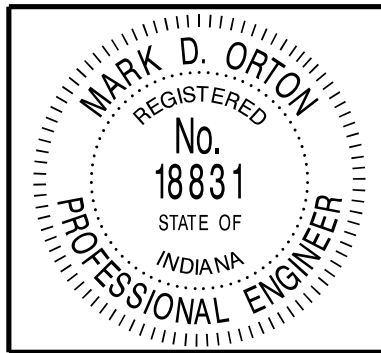
HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-04
CONTRACT IR-33742	SHEETS 158 of 173
	PROJECT 1006075

1

DATE: 10/1/2012
TIME: 10:45:19 AM
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\B62750DR1 UD01.S9.dgn

UNDERDRAIN TABLE

Underdrain Pipe Limits	UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS					Remarks	
	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location				
	4"	6"																					Outside Left	Median Left	Median Right		Outside Right
LFT	LFT	SYS	CYS	TONS	%						LFT																
Line PR-A: Mainline Southbound Median Side																											
1462+50							667.87	N																			
1464+50		200	137.0	18.0		P.G.	662.50	Y			2	67.00	1464+50	661.00	34A	638.74			6.03		34A	1				X	
1467+68							656.31	N																			
1470+00		232	158.9	20.9		P.G.	652.03	Y			2	25.00	1470+00.00	648.93			910	648.43									
1470+00							652.03	N																			
1473+00		300	205.5	27.0		-1.46%	647.65	Y			2	25.00	1473+00.00	646.91			911	646.41									
1473+00							647.65	Y			2	25.00	1473+00.00	646.91			911	646.41									
1476+00		300	205.5	27.0		0.03%	647.75	N																			
1476+00							647.75	Y			2	25.00	1476+00.00	649.23			912	648.73									
1479+00		300	205.5	27.0		P.G.	652.29	N																			
1479+00							652.29	Y			2	61.00	1479+00.00	655.00	58	644.38			5.49		58	1	X				
1482+00		300	205.5	27.0		P.G.	661.03	N																			
1482+00							661.03	Y			2	25.00	1482+00.00	665.65			913	665.15									
1485+00		300	205.5	27.0		P.G.	670.75	N																			
1485+00							670.75	Y			2	61.00	1485+00.00	674.00	59	637.75			5.49		59	1	X				
1488+00		300	205.5	27.0		P.G.	679.97	N																			
1488+00							679.97	Y			2	25.00	1488+00.00	683.79			914	683.29									
1489+50		150	102.8	13.5		P.G.	684.16	N																			
1489+50							684.16	Y			2	59.00	1489+50.00	687.00	60	645.67			5.31		60	1	X				
1493+35		385	263.7	34.7		P.G.	700.56	N																			
1495+00							700.47	Y			2	25.00	1495+00.00	699.92			916	699.42									
1497+00		200	137.0	18.0		P.G.	701.49	N																			
1497+00							701.49	Y			2	80.00	1497+00.00	702.00	61	676.16			7.20		61	1	X				
1500+50		350	239.8	31.5		P.G.	707.12	N																			
1500+50							707.12	Y			2	25.00	1500+50.00	708.65			918	707.95									
1503+00		250	171.3	22.5		P.G.	710.26	N																			
1503+00							710.26	Y			2	80.00	1503+00.00	710.00	62	705.29			7.20		62	1	X				
1506+00		300	205.5	27.0		P.G.	713.04	N																			
1506+00							713.04	Y			2	25.00	1506+00.00	713.39			919	712.89									
1508+00		200	137.0	18.0		0.74%	714.52	N																			
1508+00							714.52	Y			2	90.00	1508+00.00	713.00	63	700.50			8.10		63	1	X				
1512+00		400	274.0	36.0		0.22%	715.41	N																			
1512+00							715.41	N			2	25.00		714.71			920	714.21									
1514+00		200	137.0	18.0		-0.03%	715.34	Y					1514+00.00	715.34													
1514+00							715.34	Y			2	120.00	1514+00.00	714.00	64	690.01			10.80		64	1	X				
1518+00		400	274.0	36.0		P.G.	718.17	N																			
1518+00							718.17	Y			2	20.00	1518+00.00	720.63			921	720.13	1.80								
1522+00		400	274.0	36.0		P.G.	726.50	N																			
1522+00							726.50	Y			2	63.00	1522+00.00	725.96	65	723.96			5.67		65	1	X				
1522+90		90	61.7	8.1		3.89%	730.00	N																			
Sub Total	-	5,557.00	3806.5	500.1	-						40	951.00						63.09	-		9.00						



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE 9/6/10

DESIGNED: MDO
DRAWN: BDM
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE
I-69 - SOUTHBOUND

HORIZONTAL SCALE
N/A
VERTICAL SCALE
N/A

BRIDGE FILE
N/A
DESIGNATION
1006075

SURVEY BOOK
ELECTRONIC / AERIAL
CONTRACT
IR-33742

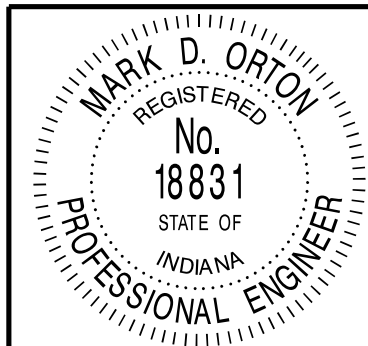
PAGE
UD-05
PROJECT
1006075



DATE: 10/1/2012
TIME: 10:45:30 AM
LOCATION: R:\05141 - I-69 Section 4\Microstation\Sheet Files\B62750DR1 UD01_S9.dgn

UNDERDRAIN TABLE

Underdrain Pipe Limits	UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS					Remarks	
	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit'	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector²	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location				
	4"	6"																					Outside Left	Median Left	Median Right		Outside Right
	LFT	LFT										SYS											CYS	TONS	%		LFT
Line PR-A: Mainline Southbound Outside Shoulder																											
1462+50							667.60	N																			
1464+50		200	137.0	18.0		P.G.	662.24	Y			2	29.00	1464+50.00	661.00	34A	638.74			2.61		34A	1	X				
1467+68							655.47	N																			
1470+00		232	158.9	20.9		P.G.	649.25	Y			2	29.00	1470+00.00	648.00	35	617.90			2.61		35	1	X				
1470+00							649.25	N																			
1473+00		300	205.5	27.0		-0.45%	647.90	Y			2	29.00	1473+00.00	647.00	36	640.54			2.61		36	1	X				
1473+00							647.90	Y			2	29.00	1473+00.00	647.00	36	640.54			2.61		36	1	X				
1476+00		300	205.5	27.0		0.77%	650.22	N																			
1476+00							650.22	Y			2	29.00	1476+00.00	649.00	37	642.46			2.61		37	1	X				
1479+00		300	205.5	27.0		P.G.	656.98	N																			
1479+00							656.98	Y			2	29.00	1479+00.00	655.00	38	644.38			2.61		38	1	X				
1482+00		300	205.5	27.0		P.G.	666.64	N																			
1482+00							666.64	Y			2	29.00	1482+00.00	665.00	39	644.26			2.61		39	1	X				
1485+00		300	205.5	27.0		P.G.	676.22	N																			
1485+00							676.22	Y			2	29.00	1485+00.00	675.00	40	641.79			2.61		40	1	X				
1488+00		300	205.5	27.0		P.G.	684.11	N																			
1488+00							684.11	N			2	29.00		683.00	41	642.43			2.61		41	1	X				
1489+50		150	102.8	13.5		P.G.	682.74	Y					1489+50.00	2.00													
1489+50							682.74	Y			2	27.00	1489+50.00	685.00	42	645.67			2.43		42	1	X				
1493+35		385	263.7	34.7		P.G.	699.22	N																			
1495+00							695.84	Y			2	34.00	1495+00.00	694.00	43	668.96			3.06		43	1	X				
1497+00		200	137.0	18.0		P.G.	702.32	N																			
1497+00							702.32	Y			2	48.00	1497+00.00	701.00	44	676.16			4.32		44	1	X				
1500+50		350	239.8	31.5		P.G.	705.47	N																			
1500+50							705.47	Y			2	50.00	1500+50.00	704.00	45	694.04			4.50		45	1	X				
1503+00		250	171.3	22.5		P.G.	710.02	N																			
1503+00							710.02	Y			2	48.00	1503+00.00	709.00	46	705.29			4.32		46	1	X				
1506+00		300	205.5	27.0		P.G.	712.27	N																			
1506+00							712.27	Y			2	42.00	1506+00.00	709.09	47	707.09			3.78		47	1	X				
1508+00		200	137.0	18.0		0.22%	712.70	N																			
1508+00							712.70	Y			2	58.00	1508+00.00	702.50	48	700.50			5.22		48	1	X				Sta. 1508+00 in Rock Cut
1512+00		400	274.0	36.0		0.22%	713.58	N																			
1512+00							713.58	Y			2	67.00	1512+00.00	692.41	49	690.41			6.03		49	1	X				
1514+00		200	137.0	18.0		0.23%	714.05	N																			
1514+00							714.05	Y			2	88.00	1514+00.00	692.01	50	690.01			7.92		50	1	X				
1518+00		400	274.0	36.0		P.G.	718.76	N																			



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE 9/6/10

DESIGNED: MDO
DRAWN: BDM
CHECKED: HCF
CHECKED: MDO

INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE
I-69 - SOUTHBOUND

HORIZONTAL SCALE
N/A
VERTICAL SCALE
N/A

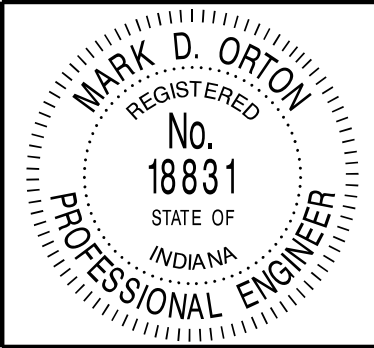
BRIDGE FILE
N/A
DESIGNATION
1006075
SURVEY BOOK
ELECTRONIC / AERIAL
CONTRACT
IR-33742

PAGE
UD-06
SHEETS
160 of 173
PROJECT
1006075

DATE: 10/1/2012
TIME: 10:45:41 AM
LOCATION: R:\03141 - I-69 Section 4\Microstation\Sheet Files\B562750DRI UD01_S9.dgn

UNDERDRAIN TABLE

UNDERDRAIN TABLE																											
UNDERDRAIN PIPE											OUTLET PIPE										OUTLET PROTECTORS						Remarks
Underdrain Pipe Limits	Type 4 Pipe		Geotextile for Underdrains	Aggregate for Underdrains	HMA for Underdrains	Special Grade	Flow Line Elevation @ Underdrain Pipe Limit'	Outlet Pipe Required	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. ____	Ditch Flow Line Elevation at Outlet Protector²	Connect Outlet Pipe to Structure No. ____	Structure Invert Elevation	B Borrow for Structure Backfill	HMA for Underdrains	Outlet Protector No.	Outlet Protector Type	Location				
	4"	6"																					Outside Left	Median Left	Median Right	Outside Right	
	LFT	LFT						SYS				CYS											TONS	%	(Y/N)	LFT	
Line PR-A: Mainline Southbound Outside Shoulder																											
1518+00						718.76	Y					1518+00.00	718.76				921b	718.26									
1522+00		400	274.0	36.0		P.G.	727.91	N																			
1522+00							727.91	Y			2	31.00	1522+00.00	725.96	51	723.96			2.79		51	1	X				
1526+00		400	274.0	36.0		P.G.	736.39	N																			
1526+00							736.39	Y					1526+00.00	735.56			922a	735.06									
1529+00		300	205.5	27.0		P.G.	742.75	N																			
1529+00							742.75	Y			2	32.00	1529+00.00	740.80	52	738.80			2.88		52	1	X				Sta. 1529+00 in Rock Cut
1533+00		400	274.0	36.0		P.G.	751.23	N																			
1533+00							751.23	Y			2	32.00	1533+00.00	749.28	53	747.28			2.88		53	1	X				Sta. 1533+00 in Rock Cut
1536+00		300	205.5	27.0		P.G.	757.59	N																			
1536+00							757.59	Y			2	91.00	1536+00.00	751.23	54	749.23			8.19		54	1	X				
1539+00		300	205.5	27.0		P.G.	763.80	N																			
1539+00							763.80	Y			2	71.00	1539+00.00	757.40	55	755.40			6.39		55	1	X				
1542+00		300	205.5	27.0		P.G.	767.97	N																			
1542+00							767.97	Y			2	62.00	1542+00.00	763.20	56	761.20			5.58		56	1	X				
1546+00		400	274.0	36.0		P.G.	769.55	N																			
1546+00							769.55	N																			
1550+00		400	274.0	36.0		P.G.	769.46	Y			2	44.00	1550+00.00	768.00	57	766.00			3.96		57	1	X				
1550+00							769.46	Y			2	30.00	1550+00.00	768.25	57	766.25			2.70		57	1	X				Sta. 1550+00 in Rock Cut
1554+00		400	274.0	36.0		P.G.	769.92	N																			
1554+00							769.92	Y			2	30	1554+00.00	769.00	58	768.00			2.70		58	1	X				Sta. 1554+00 in Rock Cut
1554+80		80.00	54.8			0.20%	770.08	Y																			
Sub Total	-	8747	5,991.7	780.0	-						54	1,146.00							103.14	-		27.00					



RECOMMENDED FOR APPROVAL		<i>M. D. Orton</i> 9/6/10	
		DESIGN ENGINEER DATE	
DESIGNED: MDO	DRAWN: BDM		
CHECKED: HCF	CHECKED: MDO		

INDIANA DEPARTMENT OF TRANSPORTATION	
UNDERDRAIN TABLE I-69 - SOUTHBOUND	

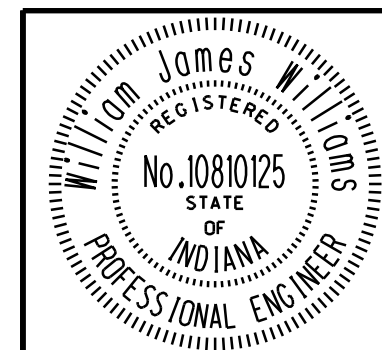
HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE UD-07
CONTRACT IR-33742	SHEETS 161 of 173
	PROJECT 1006075


A circular professional engineer seal for William James Williams. The seal features the name "William James Williams" around the top inner edge and "PROFESSIONAL ENGINEER" around the bottom inner edge. In the center, it reads "REGISTERED", "No. 10810125", "STATE OF INDIANA". The seal has a serrated outer border.

<p style="text-align: center;">INDIANA DEPARTMENT OF TRANSPORTATION</p> <hr/> <p style="text-align: center;"><i>UNDERDRAIN TABLE</i> <i>RAMP - "NER-3"</i></p>	
--	--

HORIZONTAL SCALE		BRIDGE FILE	
N/A			
VERTICAL SCALE		DESIGNATION	
N/A		1006075	
SURVEY BOOK		PAGE	SHEETS
ELECTRONIC / AERIAL		UD-08	162 of 173
CONTRACT		PROJECT	
IR-33742		1006075	

UNDERDRAIN TABLE

[illegible]

RECOMMENDED FOR APPROVAL		9/4/2012
	DESIGN ENGINEER	DATE
DESIGNED: JB	DRAWN: ETD	
CHECKED: RT	CHECKED: WJW	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

UNDERDRAIN TABLE
RAMP - "NER-3"


HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-09	163 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

A circular professional engineer seal for William James Williams. The outer ring contains the name "William James Williams" at the top and "PROFESSIONAL ENGINEER" at the bottom. The inner circle contains the text "REGISTERED" at the top, "No. 10810125" in the center, and "STATE OF INDIANA" at the bottom.

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE RAMP - "NWR-3"

HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-10	164 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

A circular professional engineer seal for William James Williams. The outer ring contains the name "William James Williams" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the word "REGISTERED" is at the top, "No. 10810125" is in the center, and "STATE OF INDIANA" is at the bottom.

RECOMMENDED FOR APPROVAL	 _____ DESIGN ENGINEER		9/4/2012 DATE
DESIGNED: _____ JB	DRAWN: _____ ETD		
CHECKED: _____ RT	CHECKED: _____ WJW		

INDIANA DEPARTMENT OF TRANSPORTATION
UNDERDRAIN TABLE RAMP - "NWR-3"

HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-11	165 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

UNDERDRAIN TABLE

A circular professional engineer seal for William James Williams. The outer ring contains the name "William James Williams" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the word "REGISTERED" is at the top, "No. 10810125" is in the center, and "STATE OF INDIANA" is at the bottom.

INDIANA DEPARTMENT OF TRANSPORTATION
<i>UNDERDRAIN TABLE</i> <i>RAMP - "SEL-3"</i>

HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-12	166 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

UNDERDRAIN TABLE

A circular professional engineer seal for William James Williams. The outer ring contains the text "William James Williams" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the word "REGISTERED" is at the top, "No. 10810125" is in the center, "STATE OF INDIANA" is below the number, and "PROFESSIONAL ENGINEER" is at the bottom.

<p style="text-align: center;">INDIANA DEPARTMENT OF TRANSPORTATION</p>
<p style="text-align: center;"><i>UNDERDRAIN TABLE</i> <i>RAMP - "SEL-3"</i></p>

HORIZONTAL SCALE	BRIDGE FILE	
N/A		
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	UD-13	167 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

[illegible]

[illegible]

7

DATE: 10/1/2012
TIME: 10:45:49 AM
LOCATION: I-465, STATE ROAD 140, INDIANAPOLIS, INDIANA
PROJECT: I-465/STATE ROAD 140 INTERCHANGE
SHEET: 1006075

GUARDRAIL SUMMARY TABLE

GUARDRAIL SUMMARY TABLE																															
LOCATION					W-BEAM GUARDRAIL LENGTH									GUARDRAIL FLARE RATE	GUARDRAIL TRANSITION TYPE TGB	CONCRETE BRIDGE RAIL TRANSITION TYPE TGT	REINFORCING STEEL	EPOXY COATED TEMP. GR TRANSITION TYPE TGB	GUARDRAIL END TREATMENT MS	GUARDRAIL END TREATMENT OS	CURVED TERMINAL END	CONCRETE BARRIER 33 IN., MODIFIED	CONCRETE BARRIER 33 IN.	TEMP. GR END TREATMENT OS		RAILING, CONCRETE, C	CONCRETE BRIDGE RAILING TRANSITION, TBT	CONCRETE BARRIER 45 IN., MODIFIED	IMPACT ATTENUATOR, R1, W1, TL-3	IMPACT ATTENUATOR, R2, W1, TL-3	REMARKS
FROM STATION	TO STATION	LEFT MEDIAN LEFT	RIGHT MEDIAN RIGHT	STANDARD POST AT 6' 3" SPA.	STANDARD POST AT 3' 1.5" SPA.	STANDARD POST AT 1' 6.75" SPA.	DOUBLE FACED AT 6' 3" SPA.		TEMP. STD. POST AT 6' 3" SPA.		SHOP CURVED AT ____ m SPA.	NESTED GUARDRAIL																			
				LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT																			
Line "A"/"PR-A"							250						30	1				1													
1461+58.83	1464+33.83		X											1																	
1461+62.90	1464+19.15			X										1					1												
1467+98.12	1470+73.12	X					250						30	1				1													
1468+12.85	1470+69.10		X											1						1											
1473+43.45	1493+62.20			X			1,993.75							1						1											
1490+60.85	1493+35.85		X				250						30	1				1													
1493+85.66	1496+41.91	X					231.25							1						1											
1494+12.00	1496+87.00		X				250						30	1				1													
1498+50.00	1499+25.00			X															1	1											To protect Sign
1515+53.32	1522+22.07		X				643.75							1				1		1											
1522+22.07	1522+82.45		X																												
1522+82.45	1525+48.86		X				225.00							2	2	1724															
1525+48.86	1526+07.47		X													1	862														
1515+37.50	1522+75.00			X			737.5											1		1											
1522+94.34	1525+90.56		X																												Type B
1526+26.56	1544+80.00		X																												Type B
1544+80.00	1553+25.00		X																												Transition to Std. Ht.
1526+34.92	1526+98.91	X																													Type A2
1526+98.91	1530+60.00	X																													Type A1
1530+60.00	1530+80.00	X																													Transition to Std. Ht.
1530+80.00	1534+33.63	X																													
Line "NWR-3"																															
1561+36.07	1574+06.44	X					1,193.75							1					1												Measured Along Curve
1572+81.16	1574+27.77		X				100							1					1												
1576+13.56	1581+99.81		X				581.25							1					1												
1561+36.07	1574+06.44	X							1,218.75								1						1								Temporary for MOT
1578+83.85	1582+81.32		X						67.50								1						1								Temporary for MOT
Line "SER-3"																															
1516+00.00	1520+00.00	X					400.00											1													
Line "SEL-3"																															
523+09.43	524+34.43		X				50.00							1					1												
526+41.74	527+66.74		X				50.00							1					1												
540+46.79	541+90.92		X				68.75							1					1												
542+49.05	545+33.77		X				212.50							1					1												
522+93.91	524+18.91	X					50.00							1					1												
526+26.22	527+51.22	X					50.00							1					1												
541+90.92	542+49.05	X																													
529+66.76	533+48.35	X																													
545+33.77	545+98.08	X																													
Line "Bolin Lane"																															
18+01.50	20+64.00		X				262.5												2												
19+30.00	21+92.50	X					262.5												2												
TOTALS							6,912.50							20	3	2586	2	7	18	2	445.1	353.6	2		603		2994.7	2	1		



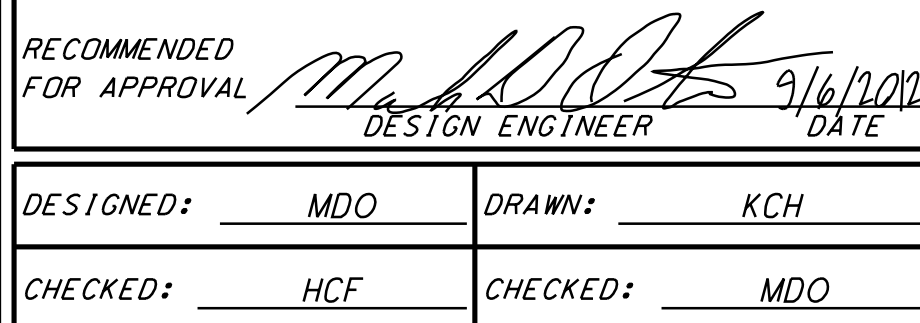
RECOMMENDED FOR APPROVAL	<i>Mark D. Orton</i> DESIGN ENGINEER	DATE 9/6/2012
DESIGNED: _____	BMG	DRAWN: _____
_____	_____	_____
CHECKED: _____	KCH	CHECKED: _____
_____	_____	_____

INDIANA DEPARTMENT OF TRANSPORTATION
GUARDRAIL TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE 67-01
CONTRACT IR-33742	SHEETS 170 of 173
	PROJECT 1006075

STRUCTURE DATA																																					
STRUCTURE NUMBER	LOCATION					SIZE INCHES	DESCRIPTION		LENGTH LFT	SKEW	FLOW LINE			SERVICE LIFE YRS.	SITE DESIGNATION	pH	STRUCTURE BACKFILL		BACKFILL METHOD	# 8 COARSE AGGREGATE CYS	TYPE	GEOTEXTILES SYS	REVIEWMENT RIPRAP TON	CLASS I RIPRAP TON	CLASS II RIPRAP TON	CONCRETE, CLASS A, FOR STR. CYS	CONCRETE PIPE ANCHOR EA.	VIDEO INSPECTION LFT	GRATED BOX END SECTION		PIPE END SECTION					CONNECT TO STR.	REMARKS
	STATION	LEFT	RIGHT	MEDIAN	CROSS		OFFSET FT	PIPE TYPE			MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	DOWN STREAM	TYPE				CYS																				
																		ELEV.											ELEV.								
LINE "A"										LFT	LFT	ELEV.	ELEV.			TYPE	CYS		CYS		SYS	TON	TON	TON	CYS	EA.	LFT	TYPE	EA.	15"	18"	24"	30"	36"			
909	1464+00		X			18	2	Inlet N-12	78.0		1.5	662.97	662.27	75	NA	6.0	1	36.4	1			40	6									1					
910	1470+00		X			18	2	Inlet N-12	78.0		1.5	648.43	647.75	75	NA	6.0	1	36.4	1			40	30									1					
911	1473+00		X			18	2	Inlet N-12	78.0		1.3	646.41	645.75	75	NA	6.0	1	36.4	1			40	6									1					
912	1476+00		X			18	2	Inlet N-12	86.0		1.7	648.73	645.00	75	NA	6.0	1	87	1			56	7									1					
913	1482+00		X			18	2	Inlet N-12	78.0		1.3	665.15	664.50	75	NA	6.0	1	36.4	1			40	29									1					
134	1483+90			X		336x120	1	Precast 3-Sided Arch	550.0	45		638.48	637.33	75	A	5.0			1	4320		2320		3760	190										#8 Aggregate For Special Backfill		
914	1488+00		X			18	2	Inlet N-12	80.0		1.4	683.29	682.50	75	NA	6.0	1	36.4	1			40	21									1					
LINE "PR-A"																																					
916	1495+00		X			18	2	Inlet N-12	84.0		2	699.42	696.25	75	NA	6.0	1	64	1			60.7	36									1					
917	1495+25			X		36	1	RCP	310.0	0	21	682.50	670.77	75	A	5.0	1	453	1			233		50									2			Sumped 6"	
975	1500+15			X		48	1	RCP	450.0	44	16	694.07	674.22	75	A	5.0			1	520		467		112		2									Sumped 6"		
918	1500+50		X			18	2	Inlet N-12	94.0		3	707.83	703.00	75	NA	6.0	1	42	1			21	16								1					#8 Aggregate For Special Backfill	
919	1506+00		X			18	2	Inlet N-12	94.0		1.5	712.89	709.92	75	NA	6.0	1	39	1			6	5								1						
976	1509+65			X		72	1	RCP	306.0	14	15	702.11	689.85	75	A	5.0			1	720		50		56		2									Sumped 6"		
920	1512+00		X			18	2	Inlet N-12	102.0		4	714.21	707.50	75	NA	6.0	1	58	1			15	12							1					#8 Aggregate For Special Backfill		
977	1512+95			X		48	1	RCP	252.0	7	8	710.46	695.70	75	A	5.0			1	40																	

DECATUR: VMEZV~A4I~C~69S~C~6N~4M~C~O~S~T~O~N~S~M~S~M~S~98P



STRUCTURE DATA TABLE

HORIZONTAL SCALE	BRIDGE FILE	
N/A	N/A	
VERTICAL SCALE	DESIGNATION	
N/A	1006075	
SURVEY BOOK	PAGE	SHEETS
ELECTRONIC / AERIAL	ST-01	171 of 173
CONTRACT	PROJECT	
IR-33742	1006075	

[illegible]

MARK D. ORTON
REGISTERED
No.
18831
STATE OF
INDIANA
PROFESSIONAL ENGINEER

DESIGNED: <u>MDO</u>	DRAWN: <u>KCH</u>
CHECKED: <u>HCF</u>	CHECKED: <u>MDO</u>

STRUCTURE DATA TABLE

SURVEY BOOK	PAGE	SHEET
ELECTRONIC / AERIAL	ST-02	172 of
CONTRACT	PROJECT	
IR-33742	1006075	

DATE: 10/1/2012
TIME: 10:46:19 AM
LOCATION: R:\005141 - I-59 Section 4\Microstation\Sheet Files\B562750DR1_PT01_A5.dgn

CORRUGATED STEEL PIPE / PIPE-ARCH

		STRUCTURE NUMBER																					
		909	910	911	912	913	914	916	917	975	918	919	976	920	977	921a	989	990	991	992	993	994	923
PIPE TYPE / SHAPE		2	2	2	2	2	2	2	1	1	2	2	1	2	1	2	2	2	2	2	2	2	2
SMOOTH PIPE SIZE		18	18	18	18	18	18	18	36	48	18	18	72	18	48	18	15	15	15	15	15	15	15
CORRUGATED PIPE SIZE		CLASS	II	II	II	II	II	II	IV	III	II	II	III	II	II	II	II	II	II	II	II	II	II
RCP/RCHEP (S)		D _{0.01} RATING	1000	1000	1000	1000	1000	1000	1500	1250	1000	1000	1350	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)			OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
CORRUGATED PE PIPE, TYPE S (S)*			OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
RIBBED PE PIPE (S)*			OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			OK/26	OK/26	OK/26	OK/26	OK/26	OK/26			OK/26	OK/26		OK/26		OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26	OK/26
PROFILE WALL PVC PIPE (S)			OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
SMOOTH WALL PVC PIPE (S)*			OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)			OK	OK	OK	OK	OK	OK			OK	OK		OK		OK	OK	OK	OK	OK	OK	OK	OK
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS																					
	ZINC COATED (C)	CORR. PROFILE THICKNESS																					
	ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS																					
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS																					
	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS																					
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS																					
	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS																					
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE THICKNESS																					
	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS																					
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS																					
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS																					
	STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE THICKNESS																					
	STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE THICKNESS																					
	STR. PLATE STEEL PIPE (C)	CORR. PROFILE THICKNESS **																					
	STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE THICKNESS **																					

CORRUGATED STEEL PIPE / PIPE-ARCH

		STRUCTURE NUMBER																
		995	924 to 931	980	981	985	987	988	996	997	982	983	984	986	915	935	948	950
PIPE TYPE / SHAPE		2	2	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1
SMOOTH PIPE SIZE		15	15	42	54	72	72	24	18	18	34x53	30	54	54	36	24	24	12
CORRUGATED PIPE SIZE																		
CLASS		II	II	II	IV	IV	V	II	II	II	HE-A	II	III	IV	IV	II	II	IV
D _{0.01} RATING		1000	1000	1000	1750	1500	2250	1000	1000	1000	600	1250	1250	1500	2000	1000	1000	1500
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK	OK						OK	OK								
CORRUGATED PE PIPE, TYPE S (S)*		OK	OK						OK	OK								
RIBBED PE PIPE (S)*		OK	OK						OK	OK								
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR		OK/26	OK/26						OK/26	OK/26								
PROFILE WALL PVC PIPE (S)		OK	OK						OK	OK								
SMOOTH WALL PVC PIPE (S)*		OK	OK						OK	OK								
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		OK	OK						OK	OK								
FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS																	
ZINC COATED (C)	CORR. PROFILE THICKNESS																	
ZINC COATED W/ BPI (C)	CORR. PROFILE THICKNESS																	
ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS																	
ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE THICKNESS																	
POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS																	
POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE THICKNESS																	
POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE THICKNESS																	
FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE THICKNESS																	
FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE THICKNESS																	
CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS																	
CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE THICKNESS																	
STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE THICKNESS																	
STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE THICKNESS																	
STR. PLATE STEEL PIPE (C)	CORR. PROFILE THICKNESS **																	
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE THICKNESS **																	

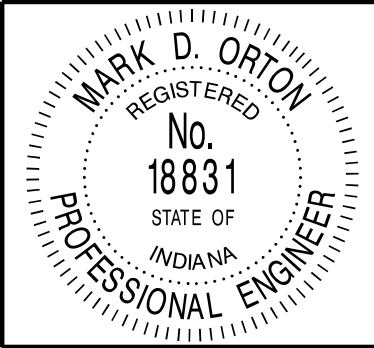
LEGEND

- RCP-
RCHEP-

PE-
DR-
PVC-
BIT-
CORR-
BPI-
ALUM-
STR-
CFP-
CIR-
DEF-
(S)-
(C)-
OK-
(LS)-
*.

**.
- REINFORCED CONCRETE PIPE
REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL PIPE
POLYETHYLENE
DIMENSION RATIO
POLYVINYL CHLORIDE
BITUMINOUS
CORRUGATION
BITUMINOUS PAVED INVERT
ALUMINUM
STRUCTURAL
CONCRETE FIELD PAVING
CIRCULAR PIPE
DEFORMED PIPE
SMOOTH PIPE MATERIAL
CORRUGATED PIPE MATERIAL
ACCEPTABLE FOR USE
LOCK SEAM PIPE REQUIRED
REFER TO STANDARD DRAWING 715-
PHCL-18 OR 19 FOR NOMINAL
DIAMETER APPROPRIATE FOR PAY
ITEM DIAMETER

TABULATED THICKNESS REFERS TO
TOP & SIDE PLATES. BOTTOM
PLATES SHALL BE OF NEXT
GREATER AVAILABLE THICKNESS.



RECOMMENDED FOR APPROVAL	<i>Mark D. Orton</i>	9/6/10
DESIGNED: MDO	DRAWN: BDM	DATE
CHECKED: HCF	CHECKED: MDO	

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE MATERIAL TABLE

HORIZONTAL SCALE N/A	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1006075
SURVEY BOOK ELECTRONIC / AERIAL	PAGE PT-01
CONTRACT IR-33742	SHEETS 173 of 173
	PROJECT 1006075